1999 MOTOR MAGAZINE INDEX

HOW TO USE THIS INDEX

General subjects are listed first, with a month and page reference (if applicable), followed by related subjects and their references. The reference gives the month of the magazine in which a topic appeared, followed by a colon and the page or pages. For example, under the general subject of "Environmental Protection Agency (EPA)," the subtopic "changes to regulations" was covered in the November issue on page 2, and is indexed as "Nov. 2."

Regarding numbers (for example, years, model numbers, engine sizes, etc.), they are arranged in increasing order, without regard to alphabetization. Thus, years are listed with the earliest year first. Likewise, BMW "3-series" would appear before BMW "5-series," and Audi "80" would be listed before Audi "90."

A

2 Cents Worth
automotive technician licensing, Jun.86
changes in car shopping, Jan.62
changing careers, Dec.74
correction to December, 1998 1999 Import Tech Report, Mar.102
correction to February OE Scheduled Maintenance Oil, Filters & Chassis Lubrication, May.86
correction to July The Latest on OBDII, Oct.B64
correction to September 2000 Domestic New Car and Truck Warranties, Dec.74
correction to September Top Twenty Tools, Dec.74
criticism of February magazine, May.86
did Bob Cerrulo go far enough, Jun.86
General Motors Corp., differential fluids warning, Jan.62
governmental controls, Mar.102
I/M program, Dec.74
new vehicle buying frustrations, Feb.104
perception vs. reality, Mar.102
Perfect Circle, Doctor of Motors degree, Jun.86
Ph.D vs. ASE revisited, Feb.104
praise for Doing it Right, May.79
praise for magazine, May.79, Jun.86, Oct.B64
praise for Trade Secrets, Dec.74
the scoop on Smurf poop, Jun.86
thanks to Bob Cerullo, Jan.62, Mar.102, May.86, Dec.74
vintage rust-buster, Oct.B64
3-series (BMW)
2.5-liter, A/C belt tensioner noise (1992 on), Apr.65
starter burns out (up to 1994), Dec.59-60
3M
Molded Shapes catalog, Feb.90
Tubing & Devices catalog, Feb.90
5-series (BMW)
2.5-liter, A/C belt tensioner noise (1992 on), Apr.65
starter burns out (up to 1994), Dec.59-60
7-series (BMW), starter burns out (up to 1994), Dec.59-60
40-series (Volvo), 2000 Import Tech Roundup, Dec.32
80 (Audi), erratic shifting (1991 and later), Aug.62
90 (Audi), erratic shifting (1991 and later), Aug.62
100 (Audi)
erratic shifting (1991 and later), Aug.62
HVAC maintenance update (1992 newer), Jun.66-67
190E (Mercedes), engine management system diagnosis, Dec.44
200SX (Nissan), cranks but won't start (1995 on), Feb.87-88
240SX (Nissan), 2.4-liter, rapping, rattling, knocking sound from inside timing cover (1989-90), Mar.18, 20-21
300M (Mercedes Benz), coolant type (1998 on), Aug.28
300SX (Nissan), rough idle when cold (1990), Mar.21
300ZX Turbo (Nissan), slipping clutch (1990-91), May.65
318ti (BMW), noisy A/C (1996), Apr.60
325i (BMW), 2.5-liter, false TPS code (1995), Jun.67, 69
525i (BMW), 2.5-liter, false TPS code (1995), Jun.67, 69
626 (Mazda), stiff steering after power steering gear replacement, Feb.84, 86
700-series (Volvo), engine management system diagnosis, Dec.44, 46
850 (Volvo) 2.3-liter, coolant leakage caution (1992 and newer), Feb.88
belt noise (1992-93), Apr.65
belt routing change (1992 and newer), Nov.77
damaged condenser/radiator grille guard (1994-96), Sep.91
evap DTCs EFI-611/EFI-612 (1996-97), Nov.75
whining noise from radio (1992 and newer), Dec.59
900 (Saab)
2.3-liter, revised cylinder head (1997), Nov.75-76
binding throttle lever recall (1994-97), Oct.37
defective fuel pump recall (1997), Dec.59
hard starting (1990-93), Feb.88
oil filter specs, Jan.47
steel engine sealing washers (1994-95), Jun.70
900-series (Volvo), engine management system diagnosis, Dec.44, 46
911 Carrera 2 (Porsche), new power steering fluid (1989-94), Jul.71-72
911 Carrera 4 (Porsche), new power steering fluid (1989-94), Jul.71-72
911 Carrera (Porsche)
clutch pressure plate service (1995 and newer), Jan.44
new power steering fluid (1995 on), Jul.71-72
oxygen sensor trouble (1995 and newer), Oct.37
911 Turbo (Porsche)
clutch pressure plate service (1996 and newer), Jan.44
new power steering fluid (1991-92, 1994), Jul.71-72
oxygen sensor trouble (1995 and newer), Oct.37
960 (Volvo), 2.9-liter, sealed engine bolts (1992 and later), Jul.70
968 (Porsche), new door switch, glove box light (1992-94), Apr.65
1999 A/C Service Report, Mobile Air Conditioning Society (MACS), annual meeting, Apr.27
1999 Domestic New Car Report, correction, Dec.74
1999 Import Tech Report, correction, Mar.102
2000 Domestic New Car and Truck Warranties wall chart, Sep.59-66
2000 Import Tech Roundup
40-series (Volvo), Dec.32
Celica (Toyota), Dec.30, 32
Echo (Toyota), Dec.28-30
Eclipse (Mitsubishi), Dec.26
I30 (Infiniti), Dec.26-27
Legacy (Subaru), Dec.27-28
Maxima (Nissan), Dec.26-27
Outback (Subaru), Dec.27-28
S-type (Jaguar), Dec.26
S2000 (Honda), Dec.24, 26
TT (Audi), Dec.22-24
2000 Imported New Vehicle Warranties wall chart, Dec.33-40
5000 (Audi), engine management system diagnosis, Dec.42-44
6000 Pontiac, worn hydraulic engine mounts (1985-92), May.71
9000 (Saab)
2.3-liter, revised cylinder head (1997), Nov.75-76
defective fuel pump recall (1997), Dec.59
inflatable restraint recall (1992-94), Aug.61
oil filter specs, Jan.47
steel engine sealing washers (1994-95), Jun.70
A4 (Audi)
multiple DTCs (1995 and newer), May.71
suspension changes (1996 and newer), Oct.31-32
A4 Quattro (Audi), suspension changes (1996 and newer), Oct.31-32
A6 (Audi)
HVAC maintenance update (1992 newer), Jun.66-67
multiple DTCs (1995 and newer), May.71
AAIA see Automotive Aftermarket Industry Association (AAIA)
ABS see Antilock Brake Systems (ABS)
ABS Education Alliance, ABS information in Spanish, Jul.75
Acceleration Simulation Mode (ASM), testing, Getting a Passing Grade, Apr.22-24, 27-28, 30-31
Accent (Hyundai), harsh 4-3 downshift (1996), Jun.64, 66
Acclaim (Plymouth)
2.5-liter
cold-idle roughness (1992-93), Sep.94-95
low power and lack of responsiveness (1992), Dec.6
Cruise Control-The Inside Story (1993-95), Mar.84-85

1999 Motor Magazine Index

intermittent rough idle (1991-95), Jun.67
Accord (Honda)
3.0-liter, Delco CS-series alternator problems, Jul.10, 12-13
buzzing noise from exhaust (1994-96), May.63
fifth-gear grind (1994-97), Mar.83
leaking ABS modulator (1994-96), Sep.87
leaking power steering pump (1994-97), Jul.74
no TCC lockup (1996-97), Aug.57
pinholes in A/C evaporator (1994-97), Apr.60
Accu Industries
Model 5400 high performance tire changers, Nov.62
Model 5402 high performance wheel balancers, Nov.62
Model 6000 wheel balancer, Oct.B33
ACDelco
longest lasting batteries, Jan.52, Mar.95
replacement parts, Oct.B33, Dec.63
Ultraguard Gold gasket, Jul.78
upgraded engine warranty, May.72
website address, Jan.52, May.72
Achieva (Oldsmobile)
2.3-liter, poor heat (1992-93), Sep.86
ABS light on, DTCs 21 & 22 (1995), Aug.57
coated pistons (1996 and newer), Jan.44, 46
ETS OFF light stays on, hot-soak rpm sag, scan tool communication corrupted (1995), Jun.60
false DTC P0121 (1997), Nov.74-75
tricky ABS codes (1993-95), Jul.70
Actron Manufacturing, OBDII scan tool, Oct.B33
Acura
see also specific models
Acura Wholesale Parts Express program, Dec.61
poor A/C performance (1994 and newer), Apr.60, 62
AERA see Automotive Engine Rebuilders Association (AERA)
Aerostar (Ford)
petroleum-based brake grease outlawed (1986-96), Jan.44
upper ball joint service (1986-95), Jul.72, 74
Aftermarket Auto Parts Alliance, new group formed, Sep.96
Air conditioning systems
see also HVAC systems
Air Conditioning Systems Assessment, Apr.41-42
blown gaskets and fried clutches on A/C compressors, Apr.63-64
cavitation problems, Aug.30
coolant comparison, Apr.26-33
coolant types and incompatibility issues, Aug.26-30
Doing it Right
Air Conditioning System Inspection checklist, Apr.49-52
contaminated systems, Apr.50
odors, Apr.50
sight glass inspection, Apr.50
temperatures, Apr.50
unusual noises, Apr.49-50
using the inspection checklist, Apr.49
visual inspection, Apr.49
Everco Temperature Control Products, hands-on quick check of orifice tube systems, Mar.85-86
Keeping it Cool, Aug.26-33
Mastering the Basics, Air Conditioning Systems Assessment, Apr.41-42
Mobile Air Conditioning Society (MACS), service report, 32-34, Apr.27-30, 32-34
Nissan, tracer dyes vs. electronic leak detectors survey results, Apr.28-29
service tips, Aug.26-33
tracer dyes vs. electronic leak detectors survey results, Apr.28-29
vehicles with R-134a, dealing with metric switch ports, Apr.62
Air Lift Company, website address, Aug.63
Airbag Service International
franchise opportunities, May.73
website address, May.73
Airbags
Flexpoint, Inc., new technology, Sep.78
Living with Airbags, Mar.24-27
SRS system components, Mar.24-26
test equipment for, Mar.26-27
two-step inflation, Jun.56
AirSept, Inc.
overflow tube hole drill, Nov.81
radiator overflow tube repair kit, Sep.32
website address, Nov.81
Airtex Products
fuel and cooling system products in three languages, Feb.90
water pumps licensed by NASCAR, Mar.88
water/fuel pump counter mat, Jun.71
website address, Mar.88
Alden Corporation, Drill-Out power extractor, Oct.B33
Alemite, Industrial Catalog, Aug.63
Alero (Oldsmobile)
new model previewed, Nov.73
Tech Preview, 2000, Sep.54
ALI see Automotive Leadership Institution (ALI); Automotive Lift Institute (ALI)
All Pro/Bumper to Bumper
A Guide to Automotive Maintenance, May.76
Auto Service Update newsletter, Nov.81
Automotive Service Center Resource Directory, Aug.65
automotive service center safety program, Sep.99
Automotive Service News, Jun.75
John Force Pit Crew Challenge winners announced, Nov.78
Lets Catch Some Customers brochure, Apr.73
merger with Auto Value Associates, Sep.96
two new safety programs, Apr.66
You Drop the Flag service dealer promotion, Jun.71
ALLDATA
diagnostic database on CD or DVD, Oct.B33
Series 295 diagnostic database, Feb.91, Apr.73, May.79, Jun.76, Jul.79
on CD or DVD, Jan.49, Sep.100, Dec.64
AlliedSignal, Inc.
Bendix MetLok disc brake pads, Oct.B33
Genetron 134a refrigerant, Oct.B34
Installer Merchandising Catalog, Nov.78
Altima (Nissan)
cold weather misfire on number 2 cylinder (1995-96), Mar.83
cranks but won't start (1993 on), Feb.87-88
front cover oil leak (1993-95), Oct.34-35
Aluminum Association
1999 FutureCar Challange, Jul.56-58
FutureTruck 2000 launched, Dec.56-57
American Chamber of Commerce Executives, avoiding Internet service scams, Sep.80-81
American Honda
Acura Wholesale Parts Express program, Dec.61
Honda Wholesale Parts Express program, Dec.61
American Tool
Chesco ball end hex keys, Aug.65
Chesco fold-up hex tool sets, Dec.63
Hanson screw extractor, Nov.81
RECORD vices, bolt cutters, clamps and pipe tools, Sep.99
AMI see Automotive Management Institute (AMI)
Antilock brake systems (ABS)
see also Brake systems
ABS information in Spanish, Jul.75
brake drum/shoe clearances, Jun.64
intermittently winking ABS light, Jul.4
Mastering the Basics, ABS system assessment, Sep.75-76
Motorist Assurance Program (MAP), Uniform Inspection & Communication Standards, May.73
APAA see Automotive Parts and Accessories Association (APAA)
APRA see Automotive Parts Rebuilders Association (APRA)
Arrow Automotive Industries, Ford, testing an IAR alternator, Jul.68
Arvin Replacement Products
ASE-certified technicians added to Gabriel/Maremont Technical Service Dept, Jan.49
two new product promotions announced, May.72
ASA see Automotive Service Association (ASA)
ASE see National Institute for Automotive Service Excellence (ASE)
ASIA see Automotive Service Industry Association (ASIA)
ASM see Acceleration Simulation Mode (ASM)
ASP see Automotive Service Professionals (ASP)
Aspire (Ford), petroleum-based brake grease outlawed (1994-96), Jan.44
Aspire, Inc.
Advanced Suspension and Steering training program, Jan.48
Advanced Wheel Alignment training program, Jan.48
Basic Suspension and Steering training program, Jan.48
home-study training program, Apr.67
Lab Scope Training Program, May.74
Mastering the Basics quiz, Jan.2
Tire and Wheel Service training program, Jan.48
website address, Jan.48
Wheel Alignment training program, Jan.48
Associated Equipment
heavy-duty commercial battery charger catalog, May.73
website address, May.73
Astro (Chevrolet), false ABS code 65 (1991), Sep.95
ATK Engines
new engine catalog, Apr.73
overnight engine delivery available, Jul.75
remanufactured engines catalog, Apr.66
ATP, Inc.
A-100 tranny seal kit, Feb.89
AT-205 Re-Seal, Jan.52, Feb.91
transmission pan bolts, Oct.42
Transmission Service Wall Chart, Jul.75
universal drain plug kit, Jun.72
Audi
see also specific models
Beck/Arnley Worldparts (BWC), TTY headbolts available, Mar.88
coolant type (1998 and later), Aug.28
differential oil meltdown (1993 and earlier), Mar.86
engine management system diagnosis, Dec.42-44
Aurora (Oldsmobile)
4.0-liter, PCM calibration enhancements (1997), Nov.76-77
Tech Preview, 2000, Sep.54, 57
Auto Meter Products, BusPro-600 multiple battery charger, Mar.89, May.79, Aug.66
Auto Tech Industries, Engine Enhancer fuel and induction system cleaning machine, Jul.76
Auto Value Associates, Light up the Track Sweepstakes winner, Feb.90
AutoCareerNet, website address, Jul.75
Autodata Publications
Diagnostic Trouble Codes: Engine Management Systems, Nov.66-67
Timing Belts, Nov.66
Wiring Schematics: Engine Management Systems, Nov.66-67
Autolite, Pro-Fit spark plug wires, Nov.80
Automotive Aftermarket Industry Association (AAIA), new association formed, May.56-57, Sep.96
Automotive Electronics Services, test lead cable wraps, Sep.98
Automotive Engine Rebuilders Association (AERA), Honda, 1.5-liter, seized cams (1984-93), Jul.66
Automotive Leadership Institution (ALI)
Shop Management Service Supremacy College courses, Dec.61
website address, Dec.61
Automotive Lift Institute (ALI)
new Safety Standard for Automotive Lift Construction, May.72-73
reference manual, Jun.71
website address, May.72
Automotive Management Institute (AMI)
All-Star Spring Seminars, Jan.49
business management courses offered, Sep.96
Course Catalog, Aug.63
Automotive Management Resources, job listing website addresses, Jul.75
Automotive Parts and Accessories Association (APAA)
Automotive Service Industry Association (ASIA) consolidation vote, Jun.57
merger with Automotive Service Industry Association (ASIA) to form Automotive Aftermarket Industry Association (AAIA), May.56-57, Sep.96
Automotive Parts Rebuilders Association (APRA), new retirement plan announced, May.73
Automotive Performance Group, Royal Purple Synthetic Oil, Jan.49
Automotive Service Association (ASA)
annual convention report, May.60
major rift in organization, Mar.4
new air standards blocked, Jul.58-59
Automotive Service Industry Association (ASIA)
Automotive Parts and Accessories Association (APAA) form new association, May.56-57
merger with Automotive Parts and Accessories Association (APAA) to form Automotive Aftermarket Industry Association (AAIA), Sep.96
Automotive Service Professionals (ASP), disenfranchised from Automotive Service Association (ASA), Mar.4
Automotive Warehouse Distributors Association (AWDA), membership directory available, Jun.71
Automotive Youth Educational Systems (AYES), producing future technicians, Jan.19
AutoTechs USA, website address, Jul.75
Autotracker, shop management software, Oct.B34
Avenger (Dodge)
2.0-liter
engine ticking noise, EGR fault (1995), Jul.70
MIL on with hex code $3A (1995-97), Sep.84
ABS diagnostic trouble codes (1998), Oct.36-37
Cruise Control-The Inside Story (1995), Mar.84-85
AvnetDirect
ALLDATA system with new computer purchase, Oct.B34
computer lease/purchase options, Sep.99
website address, Sep.99
AWDA see Automotive Warehouse Distributors Association (AWDA)
Axxess (Nissan), 2.4-liter, rapping, rattling, knocking sound from inside timing cover (1990), Mar.18, 20-21
AYES see Automotive Youth Educational Systems (AYES)

B

B & B Electronics Manufacturing, AutoTap OBDII data link cable, Nov.54
B-series truck (Ford), petroleum-based brake grease outlawed (1990-96), Jan.44
Balkamp/LUBEGARD
All-Star contest winner announced, Nov.78
website address, Nov.78
Batteries see Battery, starter & charging systems
Battery Council International (BCI), recycling lead-acid batteries, Jan.32-33

Battery, starter & charging systems
anti-theft and power saving, Dec.57
Doing it Right, Electrical Systems Inspection checklist, Nov.47-48
hybrid Asian alternators, Jul.10, 12-13, Aug.22-23
Inspira Thin Metal Foil (TMF), Jan.32
JIMCO, Inc., I60 starter/alternator test kit, Aug.22-23
Mastering the Basics
battery basics, Jan.21-22
Charging and Starting Assessment, Jan.25-26
charging system output test, Jan.24
inspecting the nuts, bolts and belts, Jan.22
the load test, Jan.22-23
starter current draw, voltage drop and speed tests, Jan.23-24
recycling lead-acid batteries, Jan.32-33
solenoids, Sep.24, 26-27
spiral-wound technology, Jul.58
Baum Tools, CS2000 live data scanner, Sep.30-31
BCI see Battery Council International (BCI)
BCM see Body Control Modules (BCM)
Beck/Arnley Worldparts (BWC)
brake pad kits, Aug.65
cabin filters for European imports, Jun.75
master catalog, Aug.63
National Institute for Automotive Service Excellence (ASE) certification registration paid, Sep.96
new warranty policy, May.72
OE-quality import vehicle filters, Nov.81
reman starters and alternators, Oct.B34
remanufactured rack and pinion brochure, Jun.71
True Blue Rewards program, Apr.66
TTY headbolts for various manufacturers, Mar.88
Bee Line, vinyl banner offered, Nov.78
Bend-Pak, X-Rack alignment rack, Jan.50
Bendix, brake product catalogs, Aug.63
Benwil Industries, MR-6 compact portable lift, Nov.66
Beretta (Chevrolet)
2.2-liter, stalling, rough running, no starts, code 42 (1990-91), Apr.58
coated pistons (1996 and newer), Jan.44, 46
tricky ABS codes (1993-95), Jul.70
Better Business Bureau, avoiding Internet service scams, Sep.80-81
Blazer (Chevrolet), false ABS code 65 (1991), Sep.95
Blue Streak Electronics
BDM Pro 3-in-1 scan tool, Jul.76, Oct.B34, Nov.54
BMW
see also specific models
coolant type, Aug.28
engine management system diagnosis, Dec.42-44
fuel cell-powered car, May.55-56
hard pedal, poor brakes (up to 1992), Aug.61-62
new gasoline fuel cell, Sep.79-80
Body Control Modules (BCM), To Flash or Not to Flash, Nov.34-38
Bonneville (Pontiac)
noise on acceleration or driving uphill (1995-96), Jan.44
Tech Preview, 2000, Sep.54, 57
Bosal USA
exhaust system catalog, Jun.71
replacement import exhaust systems catalog, Jan.49, Nov.78
Brake Align, Inc., new brake service option, Dec.56
Brake systems
see also Antilock Brake Systems (ABS)
Doing it Right, Brake System Inspection checklist, Feb.75-76
Mastering the Basics, Sep.71-76
Motorist Assurance Program (MAP), Uniform Inspection & Communication Standards, Feb.73-74, May.73
new service option, Dec.56
OE Scheduled Maintenance Tech Tips
fluid and lines, Feb.43
pads, drums and rotors, Feb.45
Bravada (Oldsmobile)
4.3-liter
CSFI poppet cleaning solvent (1996), Dec.58
low power, hesitation and stalling, DTCs (1996), Jul.68
MIL on with poor driveability (1996-97), Sep.90-91
5.0-liter
CSFI poppet cleaning solvent (1996), Dec.58
MIL on with poor driveability (1996-97), Sep.90-91
5.7-liter
CSFI poppet cleaning solvent (1996), Dec.58
MIL on with poor driveability (1996-97), Sep.90-91
Breeze (Plymouth)
A/C odor/poor defroster (1995-97), Sep.89
noisy steering (1995-96), Jan.46-47
Bronco (Ford)
petroleum-based brake grease outlawed (1990-96), Jan.44
ratcheting front axle (1995-96), Sep.85
BRYCO by Carfel
Automatic Transmission Kits & Components Catalog, Jul.75
catalog collection on CD-ROM, Jan.48
Buick
see also specific models
no-start/stalling (1995), Nov.10, 12-13
Business Sense
advertising and marketing, Dec.52
appointment scheduling and dispatching, Dec.51
business plan, Dec.49-50
customer service, Dec.51-52
employees, Dec.52
development, Mar.69-72
four-step discipline procedure, Jun.51-52
guidance and discipline, Jun.49-52
incentive compensation, Aug.45-48
parts management, Dec.50
productivity and profits, Dec.51
service writing, Dec.50
shop layout, Dec.50
BWC see Beck/Arnley Worldparts (BWC)
BWD Automotive
carburetor tune-up kits & carburetor floats catalog, Apr.66
clutch applications catalog, Sep.96, Oct.40
Ford PCV valve screen, Oct.43
ignition and electrical systems application guide, Feb.90
new fuel injector line, May.74

C

C-series truck (Ford), petroleum-based brake grease outlawed (1990-91), Jan.44
C/K-truck (Chevrolet/GMC)
4.3-liter
CSFI poppet cleaning solvent (1996), Dec.58
no upshift/stuck in 2nd (1994-95), Oct.30
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter
chuggle/surge (1996-97), Oct.32
CSFI poppet cleaning solvent (1996), Dec.58
no upshift/stuck in 2nd (1994-95), Oct.30
6.5-liter
no upshift/stuck in 2nd (1994-95), Oct.30
stumble, stall, hard start (1996-97), Jan.40
6.5-liter diesel, driveability problems (1994-96), Jul.66-67
7.4-liter, no upshift/stuck in 2nd (1994-95), Oct.30
no upshift, intermittent DTCs (1995-96), Aug.59, 61
Cabriolet (Audi), multiple DTCs (1995 and newer), May.71
California Air Resources Board (CARB), California independent aftermarket threatened, Apr.2
California Consumer Choice (CCC), California independent aftermarket threatened, Apr.2
CAM see Championship Association of Mechanics (CAM)
Camaro (Chevrolet), 5.7-liter, oil leaks (1993-97), Jul.66-67
Camry (Toyota)
charcoal canister humming noise (1996-97), Sep.84
new trunk torsion rods (1992-96), Apr.64
replacing front axle hub nuts (1992-98), Oct.37
Capri (Mercury)
missing low-side A/C service ports (1985-86), Oct.35-36
petroleum-based brake grease outlawed (1991-94), Jan.44
Caprice (Chevrolet)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
CAR see Council for Automotive Reliability (CAR)
Car Care Council, Certified Inspection Program, Feb.33
Car Care Parts Manufacturing Co.
blown gaskets and fried clutches on A/C compressors, Apr.63-64
Temperature Control Application Guide, Jul.75
Temperature Control Illustrated Parts Guide, Jul.75
Caravan (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-96), Mar.84-85
front suspension noise (1994-95), Jul.68
intermittent rough idle (1991-95), Jun.67
missing, stalling, gear hunting (1996), May.66
CARB see California Air Resources Board (CARB)
Cardone Industries
brake catalog, Mar.88
electric motors catalog supplement, Aug.63
offers constant velocity drive axles, May.73
RideSaver struts catalog, Jul.75
website address, Feb.90
CarLink, car-sharing program, Apr.53-54
CARQUEST Auto Parts
Special Olympics World Summer Games, Dec.61
Gold Sponsor, Jan.48
website address, Jan.48
CARS, Shop Management Tools for Success, Jan.55, Feb.92, Mar.95, Apr.74, Jun.79, Aug.66, Dec.64
Casey Tool & Machine, CTM-1 parts washer, Sep.37-38
Castrol, A/C retrofit kits, Mar.87
Catalytic Convertors, Cat Smarts, accurately diagnosing problems, May.32-34, 36-37
Catera (Cadillac), coolant type, Aug.28
Cavalier (Chevrolet)
2.2-liter, stalling, rough running, no starts, code 42 (1990-91), Apr.58
2.4-liter, intermittent MIL, DTC P0107 (1996), Jun.64
3.1-liter, engine odor after routine oil change (1992), Jan.4
rear thumping noise (1995-97), May.63
tricky ABS codes (1993-95), Jul.70
CCC see California Consumer Choice (CCC)
Celebrity (Chevrolet)
2.8-liter, recurrent oil leaks (1986), Mar.10, 12-13
worn hydraulic engine mounts (1985-92), May.71
Celica (Toyota)
2000 Import Tech Roundup, Dec.28-30, 32
replacing front axle hub nuts (1992-98), Oct.37
Central Tools, precision measuring tools and work light catalog, Feb.90
Century (Buick)
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
worn hydraulic engine mounts (1985-92), May.71
Champion Engineering
Advantage series compressors, Apr.74, Jul.78, Aug.65
Platinum Power spark plugs, Nov.80
Rotorchamp 5-7.5 HP rotary compressors, Nov.81
The Smoke Machine leak detector, May.76, Jul.76, 79, Nov.81
website address, Jan.48, May.76, Jul.79
Championship Association of Mechanics (CAM), IndyCar Series Top Wrench Award winner announced, Mar.79-80
Channellock, pliers, Oct.B34
Charging systems see Battery, starter & charging systems
Chart Industries, Twinn-Lift, Sep.37
Chassis lubrication
OE Scheduled Maintenance Tech Tips, Feb.65
oil change, Feb.63
oil filter change, Feb.63, 65
Chek-Chart
2000 Car Care Guide, Dec.63
National Institute for Automotive Service Excellence (ASE) study guides, Sep.99
Tire Fitment Guide, Jun.75, Jul.78, Aug.65
website address, Sep.99
Cherokee (Jeep)
fuel sender recall (1997), Sep.87
PCM precaution (1996-98), Sep.93
timing adjustment for light spark knock (1996-97), Nov.76
Chevrolet
see also specific models
repeated head gasket failure (mid to late 1980s), Nov.4, 7
Chicago Pneumatic
CP-749 Super Duty impact wrench, Nov.63
CP-826 Heavy Duty air ratchet, Nov.63-64
Chicago Rawhide, CR Seals and SKF Bearings Application Guide, Nov.78
Christie Automotive Products, PDQ battery charger, Nov.54
Chrysler Corp.
see also specific models
Jendham, engine control systems training program, Dec.61
no-start diagnosis (1997), Oct.34
reprogramming PCMs, Nov.34-35
steering gear service, Jan.41, 43
Y2K bug information, Aug.57
Ciera (Oldsmobile)
coated pistons (1996 and newer), Jan.44, 46
worn hydraulic engine mounts (1985-92), May.71
Cirrus (Chrysler)
A/C odor/poor defroster (1995-97), Sep.89
Cruise Control-The Inside Story (1995), Mar.84-85
moisture in tail lights (1995), Mar.82-83
no A/C (1995), Nov.77
noisy steering (1995-96), Jan.46-47
ripped air filter (1995-96), Jun.60
water in fuel fill door (1995), Nov.74
Civic (Honda)
1.5-liter, recall on camshaft job (1988), Oct.6, 10
CarLink car-sharing program, Apr.53-54
diagnosing lean air/fuel sensor problems (1992-98), Oct.16, 19
leaking power steering pump (1992-95), Jul.74
no TCC lockup (1996-97), Aug.57
noisy timing belt (1996), Jan.40
pinholes in A/C evaporator (1994-97), Apr.60
rough feel in accelerator pedal (1996), Sep.93
CL (Acura), 3-liter, Delco CS-series alternator problems, Jul.10, 12-13

1999 Motor Magazine Index

Clayton Ind., Virtual Test Track
dynamometer, Oct.B35
Clean Burn, used-oil fired furnaces, Oct.B35
Clevite
Machinist of the Year announced, Aug.63
Machinist of the Year competition, Mar.88
Colt (Dodge), new connector lock (1994-95), Mar.83-84
Colt Vista (Dodge)
2.0-liter, frayed and slipping alternator belt, Jan.10, 12-13
delayed shifting when cold (1991-94), Feb.84
Commander (Jeep), fuel cell-powered car, May.55-56
Competitions
1999 FutureCar Challange, Jul.56-58
ECOCAR 2000 design competition, Apr.53
Formula SAE Competition, Jul.62
FutureTruck 2000 launched, Dec.56-57
National Automotive Technology Competition, Jul.62
Computers
see also Internet; Software; World Wide Web
ALLDATA
Series 295 diagnostic database on CD-ROM or DVD, Jan.49, Feb.91, Apr.73, May.79, Jun.76, Jul.79, Sep.100, Oct.B33, Dec.64
AvnetDirect
ALLDATA system with new computer purchase, Oct.B34
computer lease/purchase options, Sep.99
B & B Electronics Manufacturing, AutoTap OBDII data link cable, Nov.54
BRYCO by Carfel, catalog collection on CD-ROM, Jan.48
Elgin Industries, engine chassis catalog on CD-ROM, Dec.61
Ford, Worldwide Diagnostic System (WDS), Apr.54-55
Lincoln Automotive, lifting equipment catalog on CD-ROM, Jul.75
MOTOR Magazine
Service Slants on CD-ROM, Mar.95, Jun.79, Oct.B39
MOTOR/ALLDATA Systems, electronic automotive repair information, Nov.68
powertrain control modules, pros and cons of reprogramming, Nov.34-38
Pro-Cut International, PFM900 Smart Lathe CD-ROM, Feb.90
Snap-On Tools, CD-based catalog, Apr.66
Target Training
GM engine control systems on CD-ROM, Feb.91
QuickSpec CD-ROMs, Oct.B38
using tracking software and websites to schedule maintenance, Feb.33
Y2K scare, Apr.4, 6, Jun.41-43
Concorde (Chrysler)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
coolant type (1998 on), Aug.28
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
rear stabilizer link kit (1993-96), Sep.91
Concours (Cadillac)
4.6-liter
cranks but won't start (1994-95), May.70-71
DTC P039 sets after cold start (1994-95), Nov.75
PCM calibration enhancements (1997), Nov.76-77
Contact East, name-brand tool and equipment catalog, Jun.71
Continental General Tire, new tire and wheel systems announced, May.58-59
Continental (Lincoln)
air-ride strut leakage (1988 and later), Jun.28
clicking in reverse (1995-96), Apr.60
low oil level warning (1995-96), May.68
MIL on/DTC 0411 (prior to 8-6-96), Jan.40
petroleum-based brake grease outlawed (1982-96), Jan.44
rocker arm noise (1989-94), Nov.77
Continental-Teves, Sidewall Torsion Sensor System tire technology, Jul.14, 16, 19
Contour (Ford)
2.0-liter
hard/no start (1995-96), Sep.82, 84
potential engine timing mixup (1995-96), May.63
petroleum-based brake grease outlawed (1995-96), Jan.44
Conventional European coolant see Coolants
Conventional Japanese coolant see Coolants
Coolants
characteristics of
conventional European, Aug.26-33
conventional Japanese, Aug.26-33
hybrid American, Aug.26-33
hybrid European, Aug.26-33
organic acid technology (OAT), Aug.26-33
incompatibilities, Aug.26-30
NPG coolant developed, Dec.61
Cooling systems
Doing it Right
Cooling System Inspection checklist, Aug.41-42
inspecting for leaks, Aug.40
inspection tips, Aug.39-40
overheating, Aug.40
using the checklist, Aug.40
International Copper Association (ICA), new radiator technology, Apr.56
Keeping it Cool, coolants compared, Aug.26-30
new radiator technology, Apr.56
NPG coolant developed, Dec.61
OE Scheduled Maintenance Tech Tips
coolant flush and fill, Feb.47
drivebelt inspection, Feb.48
hose and clamp inspection, Feb.47-48
Corolla (Toyota)
alternator difficulties on NUMMI built cars, May.12, 14-15
frayed oxygen sensor (1993-97), Nov.20-21
replacing front axle hub nuts (1992-98), Oct.37
Corrosion Consultants, Exact-Dose A/C dye injector, Apr.67
Corsica (Chevrolet)
2.2-liter, stalling, rough running, no starts, code 42 (1990-91), Apr.58
coated pistons (1996 and newer), Jan.44, 46
tricky ABS codes (1993-95), Jul.70
Corvette (Chevrolet), 5.7-liter, oil leaks (1992-96), Jul.66-67
Cottman Transmissions Systems, Better Business Bureau of Eastern Pennsylvania Marketplace Ethics Award, Jan.49
Cougar (Mercury)
4.6-liter, lit MIL, water in MAF sensor (1996), Jul.66
coolant type (1999), Aug.28
missing low-side A/C service ports (1986, 1989), Oct.35-36
petroleum-based brake grease outlawed (1984-96), Jan.44
rocker arm noise (1989-96), Nov.77
Council for Automotive Reliability (CAR), maintenance awareness campaign, Dec.54, 56
Coupe (Audi), engine management system diagnosis, Dec.42-44
Coupe GT (Audi), engine management system diagnosis, Dec.42-44
Cressida (Toyota), A/C not cooling (1989), Jun.12, 14-15
Crown Remanufacturing, reman fuel injectors catalog, Sep.96
Crown Victoria (Ford), petroleum-based brake grease outlawed (1985-96), Jan.44
Cruise control, Cruise Control-The Inside Story, Mar.84-85
CSK Auto, new website, Sep.96
Cutlass (Oldsmobile), false DTC P0121 (1997), Nov.74-75
Cutlass Supreme (Oldsmobile)
3.4-liter, phantom stalls (1991-93), Feb.82
coated pistons (1996 and newer), Jan.44, 46
noise on acceleration or driving uphill (1996), Jan.44
CV joints and boots, OE Scheduled Maintenance Tech Tips, Feb.51

D

D21 truck (Nissan), 2.4-liter, hard shifting, binding clutch (1990-91), Jan.40
DaimlerChrysler Corp., 1999 FutureCar Challange, Jul.56-58
Dakota (Dodge)
brake pedal squawk (1995-96), Jan.47
bucking at wide open throttle (1996-98), Dec.58-59
PCM precaution (1996-98), Sep.93
Quad Cab previewed, Feb.78, 80
timing adjustment for light spark knock (1996-97), Nov.76
Dana Brake and Chassis Division
added Spicer line of chassis and suspension parts, Nov.72
purchase agreement with Federal-Mogul, Jan.48
Dart Machinery
Engine Builders Extraordinaire, Feb.32-34
engines for National Hot Rod Association (NHRA) vehicles, Mar.31-34
Daytona (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993), Mar.84-85
intermittent rough idle (1991-93), Jun.67
Defender (Land Rover)
3.9-liter, engine oil fill level (up to 1995), Jul.68
unstable idle (1993), Jun.62-63
Del Sol (Honda), pinholes in A/C evaporator (1994-95), Apr.60
Delco Remy, in-solenoid anti-theft device, Dec.56
Delphi Automotive Systems
dry interface brake corners, May.56
new gasoline fuel cell for BMW, Sep.79-80
Detroit Edison Co., 1999 FutureCar Challange, Jul.56-58
DeVille (Cadillac)
4.6-liter
cranks but won't start (1994-95), May.70-71
DTC P039 sets after cold start (1994-95), Nov.75
PCM calibration enhancements (1997), Nov.76-77
Tech Preview, 2000, Sep.54
Diagnostics
see also OBD; OBDII
accurate diagnosis of OBDII problems, Oct.22, 24, 27
Cat Smarts, accurately diagnosing catalytic converter problems, May.32-34, 36-37
Diagnosing Waste-Spark DIS, Jul.20-22, 24-26
Getting the Most From Your Tech Hotline, Nov.40-41, 43, 45
Honda, lean air/fuel ratio sensor, Sep.18, 18-23, 23
hybrid Asian alternators, Jul.10, 12-13, Aug.22-23
idle speed control systems, diagnosis and repair, Dec.18, 20
intermittently winking ABS light, Jul.4
Jendham, engine control systems training program, Dec.61
The Ins and Outs of European Engine Management Systems, Dec.42-44, 46-47
To Flash or Not to Flash, PCM reprogramming, Nov.34-38
Toyota knock sensors, oxygen sensors and IAC systems, Dec.12, 16
Worldwide Diagnostic System (WDS), Apr.54-55
DieselNet, website address, Mar.88
Direct Ignition Systems (DIS)
Diagnosing Waste-Spark DIS, Jul.20-22, 24-26
DIS see Direct Ignition Systems (DIS)
Discovery (Land Rover), transfer case whine (1994-95), Apr.62
Doing it Right
inspection guidelines
air conditioning systems, Apr.49-52
cooling systems, Aug.39-40
electrical systems, Nov.47-48
engine performance and maintenance, Jul.51-54
exhaust systems, May.49-52
steering and suspension systems, Jun.33-36
systems inspections, Feb.70-71
Domestic New Car & Truck Warranties, wall chart, Jun.59-66
Dorman, Manifolds Plus replacement exhaust manifold kits, Nov.80
Dozier Equipment, storage catalog and buyers guide, Apr.66
Driveability Corner
idle speed control system, diagnosis and repair, Dec.18, 20
mass airflow (MAF) systems, Feb.24, 26-27
NOx emissions testing under load, Jun.18, 20-21
OBDII, accurate diagnosis of problems, Oct.22, 24, 27
Saturn, stall on deceleration when hot, Aug.16, 1819
speed density (MAP-sensor only) fuel control systems, Apr.18, 20-21
Taurus (Ford), 3.0-liter, testing speed-density system (1999), Feb.24, 26-27
Drivebelts, noise in front-wheel drive vehicles, Feb.10, 12-13
Drivelines, OE Scheduled Maintenance Tech Tips, Feb.49
Drivetrains, Motorist Assurance Program (MAP), Uniform Inspection & Communication Standards, May.73
DuPont, increased production of Suva HFC-134a refrigerant, Oct.40
Durango (Dodge)
bucking at wide open throttle (1996-98), Dec.58-59
PCM precaution (1996-98), Sep.93
Dynasty (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993), Mar.84-85
intermittent rough idle (1991-93), Jun.67

E

E-350 (Ford), melted glow plug relay (1995), Jun.66
E-Class (Mercedes Benz), no caster or camber adjustment, Jun.25
E-Com (Toyota), new electric vehicle previewed, Jul.59, 61
E420 (Mercedes Benz), 4.2-liter, MAF, O2 sensor codes (up to 1995), Jul.68-69
Eagle Equipment, new plant in Joshua, Texas, Feb.91, Apr.74, Jun.79
EASE Diagnostics
4- and 5-gas analyzers, Nov.54
PCM service programming system, Sep.30-31, Nov.38
Echo (Toyota), 2000 Import Tech Roundup, Dec.26-30, 32
Eclipse (Mitsubishi)
2.0-liter
erratic idle, power loss and MIL lit (1995-96), Feb.84
timing belt replacement advice (1990-92), May.62
2000 Import Tech Roundup, Dec.26
new model reviewed, Aug.50
ECOCAR 2000 design competition, design competition, Apr.53
Econoline (Ford)
7.3-liter, new RTV sealant (1995 on), Mar.82
correction to June, 99 Service Slants Ford truck/no blower motor operation, Nov.76
false ABS DTCs (1994-96), Jul.70
no blower motor operation (1992-93), Jun.58, 60
petroleum-based brake grease outlawed (1990-96), Jan.44

rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
Editor's Report
122,000 mile oil change, Jan.2
Automotive Service Association (ASA), major rift in organization, Mar.4
California aftermarket threatened, Apr.2
challenges for repair industry, Mar.4
Environmental Protection Agency (EPA)
changes to regulations, Nov.2
new emissions testing technology, Jun.4
high school automotive tech apprentice program, Jul.2
Hyundai, new parts ordering and service information website, May.2
the importance of scheduled maintenance, Feb.6
MOTOR Magazine, Source Guide, 2000, Oct.4
NAPA
Auto-Attitudes Report, Sep.4
Honest Information About the Car Repair Industry campaign, Aug.4
predictions for the new millennium, Dec.4
product liability lawsuits, Aug.2
service information availability, Nov.2
understanding basic system technology, Jan.2
Edlemann, Power Steering System Products catalog, Apr.66
Eighty Eight LSS (Oldsmobile), noise on acceleration or driving uphill (1996), Jan.44
Eighty Eight (Oldsmobile)
false low-fuel warning light (1996), Jul.67
noise on acceleration or driving uphill (1995-96), Jan.44
Elantra (Hyundai)
harsh 4-3 downshift (1992-96), Jun.64, 66
synchro identification (1997), Jan.44
Eldorado (Cadillac)
4.6-liter
cranks but won't start (1994-95), May.70-71
DTC P039 sets after cold start (1993-95), Nov.75
PCM calibration enhancements (1997), Nov.76-77
Electric vehicles
Honda Insight, Sep.79
Toyota e-com, Jul.59, 61
Electrical systems
42-volt systems, Nov.70
Doing it Right
accessories, Nov.48
battery, Nov.47-48
charging system, Nov.48
distribution system, Nov.48
Electrical System Inspection checklist, Nov.49-50
performing the inspection, Nov.47
starting system, Nov.48
using the checklist, Nov.48
Elgin Industries, engine chassis catalog on CD-ROM, Dec.61
Emissions
Accleration Simulation Mode (ASM) testing, Getting a Passing Grade, Apr.22-24, 27-28, 30-31
Dealer and Repair Pollution policy, Dec.61
engine performance & maintenance inspection, Jul.52
Environmental Protection Agency (EPA)
changes to regulations, Nov.2
compliance training requirements, Jan.28-29
exhaust system regulations, May.49-50
new testing technology, Jun.4
Incentives Based Policy Committee, new testing technology, Jun.4
new air standards blocked, Jul.58-59
NOx testing under load, Jun.18, 20-21
On-Board Refueling Vapor Recovery System (ORVR), EPA regulation, Jul.28-30
training, Jan.29
Enerpac Automotive Products
Tru-Spark ignition firing indicator, Nov.80
website address, Nov.80
Engine management systems
Jendharn, engine control systems training program, Dec.61
The Ins and Outs of European Engine Management Systems, Dec.42-44, 46-47
Engine performance
Doing it Right
Engine Performance and Maintenance Inspection checklist, Jul.53-54
inspection tips, Jul.51-52
using the checklist, Jul.52
OE Scheduled Maintenance Tech Tips
air filter and PCV valve, Feb.52-53
spark plugs and wires, Feb.53
timing belts, Feb.61
valve adjustment, Feb.59
Timing is Everything, Aug.34-37
Enterprise Alliance
website address, Jan.34
welcomes new members, Jan.34
Environmental Protection Agency (EPA)
1999 FutureCar Challange, Jul.56-58
changes to regulations, Nov.2
compliance training requirements, Jan.28-29
exhaust system regulations, May.49-50
new emissions testing technology, Jun.4
new OBD regulation, Apr.55-56
EPA see Environmental Protection Agency (EPA)
Equipment and Tool Institute (ETI)
annual meeting update, Jan.18-19
new president announced, Dec.57
Products Showcase
AR250 Seal-Head air ratchet, Nov.55
ATX3000 semiautomatic transmission fluid exchanger, Nov.60-61
Auto Tap OBDII data link connecting cable, Nov.54
AutoTuff AT3738 Evaporative Emissions Systems Tester, Nov.55
BDM Pro 3-in-1 scan tool, Nov.54
CJ20 Injector Tester, Nov.55
Coats Model 1050 wheel balancer, Nov.64
Cool-Tech I.D. refrigerant identifier, Nov.59
CoolantClean Coolant Exchange System, Nov.56
CP-749 1/2 inch super duty impact wrench, Nov.63
CP-826 heavy duty air ratchet, Nov.63-64
Custom Series workbenches, Nov.66-67
DSP400 digital alignment sensors, Nov.64
EASE 4- and 5-gas analyzers, Nov.54
EZ Arms XR replacement upper control arms, Nov.65
Fast-Spec hand held database, Nov.60
Fast-Track ABS Troubleshooter MT25002798 scan tool software, Nov.56
Ford Pre-OBDII software, Nov.54
GasLink gas analyzer, Nov.54-55
GSP9700 wheel balancer, Nov.65-66
J-38792 Electronic Vibration Analyzer (EVA), Nov.58-59
J-42598 Vehicle Data Recorder, Nov.58
MD-1750 dynamometer, Nov.56
Model 3155 Accuracy Plus starting/charging system tester, Nov.58
Model 5400 tire changer, Nov.62
Model 5402 tire changer, Nov.62
Model 5568 Professional Digital Timing Light, Nov.55
Model 6000 wheel balancer, Nov.62-63
Model 16600 Electronic Leak Detector, Nov.59
Model 030465 fluid containment bench, Nov.67
MOTOR/ALLDATA electronic automotive repair information, Nov.68
MPSI ProLink 9000 OBDII software, Nov.56
MR-6 6000 pound capacity midrise lift, Nov.66
MT2400 Vantage graphing meter, Nov.58
MTS5100 Engine Analyzer, Nov.60
No. 6070 StrutTamer, Nov.66
No. 7939 Ford vacuum front hub release tool, Nov.66
PDA PC-Link engine analyzer, Nov.55
PDQ battery charger, Nov.54
PFM 900 on-car brake lathe, Nov.64
PR-10 Resistance Spot Welding System, Nov.68
Pro-Swing Ratcheting Head Wrench, Nov.55-56
RTI RHS780 refrigerant handling system, Nov.56, 58
Series 611 Wheel Alignment Systems, Nov.64
Special Forces Ratchet and Socket System, Nov.56
SPOA9 Two-Post Asymmetrical Surface Lift, Nov.66
Tech Series manuals, Nov.67-68
Technician's Collision Repair Guide, Nov.68
TorqStiks, Nov.65
Trade Press Report
Membership Roster, Nov.53
President's letter, Nov.52
ES300 (Lexus)
EVAP system diagnosis (1996-98), Jul.70-71
harsh shifts (1994), May.68
Escalade (Cadillac), knocking out upper control arm slugs (1989-98), Jun.24
Escort (Ford)
2.0-liter, bad EGR hose routing (1997), Feb.82
petroleum-based brake grease outlawed (1985-96), Jan.44
ESP, Systemone emission inspection station, Oct.B35
ETI see Equipment and Tool Institute (ETI)
Evans Cooling Systems, NPG Coolant developed, Dec.61
Evap, temperature control products application guide, Sep.96
EVAP systems, new-design cap, Jul.28-29
Everco Temperature Control Products, hands-on quick check of vehicles with orifice tube air conditioning systems, Mar.85-86
Evoq (Cadillac), previewed, Feb.81
Excel (Hyundai), harsh 4-3 downshift (1990-94), Jun.64, 66
Exhaust systems
Doing it Right
Exhaust System Inspection checklist, May.51-52
inspecting components, May.50
using the checklist, May.50
Environmental Protection Agency (EPA), exhaust system regulations, May.49-50
OE Scheduled Maintenance Tech Tips, Feb.46
Exide, spiral-wound battery technology, Jul.58
Expedition (Ford), rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
Explorer (Ford)
ARC system service warnings (1995 and later), Jun.28
binding transfer case (1995-97), Sep.91-93
flashing O/D light (1998), Nov.74
petroleum-based brake grease outlawed (1991-96), Jan.44
shaky console, CD player skips (1995-97), May.65
upper control arm "square cams" (1995 and later), Jun.25
Eye on Electronics
coil-near-plug/coil-on-plug ignition systems, Nov.14, 16, 18
Continental-Teves, Sidewall Torsion Sensor System tire technology, Jul.14, 16, 19
new 42-volt electrical systems previewed, Jan.16-17
platinum-tipped spark plug testing, Mar.14, 16-17
Society of Automotive Engineers (SAE), annual convention report, May.16-17, Jun.19
solenoids, Sep.24, 26-27
EZ Red Co., full line catalog, Oct.B35

F

F-150 (Ford)
5.0-liter
lack of power, rough idle, engine ping (1990), Jun.6, 8
piston meltdown (1990), Sep.6, 11
poor idle quality after throttle body cleanup (1989), Aug.4, 7
ratcheting front axle (1995-96), Sep.85
rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
F-250 (Ford)
5.8-liter, gear rattle (1988-95), Aug.61
7.3-liter, new RTV sealant (1995 on), Mar.82
melted glow plug relay (1994-95), Jun.66
petroleum-based brake grease outlawed (1990-96), Jan.44
rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
F-350 (Ford)
5.8-liter, gear rattle (1988-95), Aug.61
7.3-liter, new RTV sealant (1995 on), Mar.82
melted glow plug relay (1994-95), Jun.66
petroleum-based brake grease outlawed (1990-96), Jan.44
F-Super Duty (Ford)
7.3-liter, new RTV sealant (1995 on), Mar.82
melted glow plug relay (1994-95), Jun.66
petroleum-based brake grease outlawed (1990-96), Jan.44
Federal Trade Commission, avoiding Internet service scams, Sep.80-81
Federal-Mogul
expanded Sealed Power Platinum engine repair marketing program, Apr.66
Great TRW Chassis Sweepstakes winner announced, May.73
heavy duty sway bar link kits, Jun.72
problem-solving head gasket, Aug.64
purchase agreement with Dana, Jan.48
Fel-Pro, High Performance Engine Building and Blueprinting School, Apr.66
Ferret Instruments, GasLink gas analyzer, Nov.54-55
Festiva (Ford), rear brake squeal (1988-89), Dec.58
Firebird (Pontiac), 5.7-liter, oil leaks (1993-97), Jul.66-67
Flaming River Industries
performance parts catalog, Jun.71
website address, Jun.71
Fleetwood (Cadillac)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Flexpoint, new airbag technology, Sep.78
Fluke Corp.
98 Series II Auto Scopemeter, Jan.52, Apr.74, Aug.66
acquisition of Pomona Electronics, Jan.48
Fluoro Tech
FT-4000 A/C service system, Mar.87
MAC2000 A/C service machine, Aug.64
Focus (Ford)
previewed, Feb.80
Tech Preview, 2000, Sep.48-50, 52
Ford Motor Co.
see also specific models
1999 FutureCar Challange, Jul.56-58
common clutch problems on pickups, Jun.63-64
coolant type, Aug.28
product liability lawsuits, Aug.2
reprogramming PCMs, Nov.34-35
testing an IAR alternator, Jul.68
Worldwide Diagnostic System (WDS), Apr.54-55
Foreign Service
240SX (Nissan), 2.4-liter, rapping, rattling, knocking sound from inside timing cover (1989-90), Mar.18, 20-21
300SX (Nissan), rough idle when cold

1999 Motor Magazine Index

(1990), Mar.21
Accord (Honda), 3-liter, Delco CS-series alternator problems, Jul.10, 12-13
Axxess (Nissan), 2.4-liter, rapping, rattling, knocking sound from inside timing cover (1990), Mar.18, 20-21
Civic (Honda), diagnosing lean air/fuel sensor problems (1992-98), Oct.16, 19
Corolla (Toyota)
alternator difficulties on NUMMI built cars, May.12, 14-15
frayed oxygen sensor (1993-97), Nov.20-21
Honda, lean air/fuel ratio sensor, Sep.18, 23
Impulse (Isuzu), CS-series alternator troubles (1990), Jun.16-17
JIMCO, Inc., I60 starter/alternator test kit, Aug.22-23
Nissan
3.0-liter VG30, coolant leakage, Apr.14, 16
3.0-liter VG30, timing belt problems, Apr.14, 16
intermittent injector failure in trucks, Feb.22-23
intermittent stalling when engine is warm, Feb.20, 22
Prizm (Geo), frayed oxygen sensor (1993-97), Nov.20-21
Pulsar (Nissan), 1.6-liter, rapping, rattling, knocking sound from inside timing cover (1989-90), Mar.18, 20-21
Sentra (Nissan)
1.6-liter, rapping, rattling, knocking sound from inside timing cover (1989-91), Mar.18, 20-21
intermittent misfiring, rough acceleration, hesitation and stalling (early 1990s), Jan.14
intermittent stalling especially in hot weather (early 1990s), Jan.14-15
Stanza (Nissan), 2.4-liter, rapping, rattling, knocking sound from inside timing cover (1990-94), Mar.18, 20-21
Storm (Geo), CS-series alternator troubles (1990), Jun.16-17
Toyota
diagnosing knock sensors, oxygen sensors and IAC systems, Dec.12, 16
shorted wiring in trucks, (1989-94), Nov.20-21
Four Seasons Temperature Controls
General Motors Corp., A/C accumulator fittings, Apr.64-65
vehicles with R-134a, dealing with metric switch ports, Apr.62
Fuel, oxygenated fuel program first year results, Mar.6
Fuel systems
engine performance & maintenance inspection, Jul.52
OE Scheduled Maintenance Tech Tips, Feb.60
fuel filter, cap and lines, Feb.60
speed density (MAP-sensor only), Apr.18, 20-21
speed-density and mass airflow delivery systems, Dec.6
Fuel-cell vehicles
BMW, May.55-56
Jeep Commander, May.55-56
Necar 3 (Mercedes-Benz), May.55-56
P2000 (Ford), May.55-56
Future Truck 2000, competition launched, Dec.56-57
FutureCar Challenge results, Jul.56, 58
F.Y.I
3M
Molded Shapes catalog, Feb.90
Tubing & Devices catalog, Feb.90
ABS Education Alliance, ABS information in Spanish, Jul.75
ACDelco, upgraded engine warranty, May.72
Aftermarket Auto Parts Alliance, new group formed, Sep.96
Air Lift Company, new website, Aug.63
Airbag Service International, franchise opportunities, May.73
Airtex Products
fuel and cooling system products in three languages, Feb.90
water pumps licensed by NASCAR, Mar.88
water/fuel pump counter mat, Jun.71
Alemite, Industrial Catalog, Aug.63
All Pro/Bumper to Bumper
John Force Pit Crew Challenge winners announced, Nov.78
merger with Auto Value Associates, Sep.96
two new safety programs, Apr.66
You Drop the Flag service dealer promotion, Jun.71
ALLDATA, Series 295 diagnostic database on CD-ROM, Jan.49
AlliedSignal, Inc., Installer Merchandising Catalog, Nov.78
American Honda, Acura Wholesale Parts Express program, Dec.61
Arvin Replacement Products
ASE-certified technicians added to Gabriel/Maremont Technical Service Dept, Jan.49
two new product promotions announced, May.72
Aspire, Inc.
Advanced Suspension & Steering training program, Jan.48
Advanced Wheel Alignment training program, Jan.48
Basic Suspension & Steering training program, Jan.48
Tire & Wheel Service training program, Jan.48
Wheel Alignment training program, Jan.48
Associated Equipment, heavy-duty commercial battery charger catalog, May.73
ATK Engines
overnight engine delivery available, Jul.75
remanufactured engines catalog, Apr.66
ATP, transmission service wall chart, Jul.75
Auto Value Associates, Light up the Track Sweepstakes winner, Feb.90
Automotive Aftermarket Industry Association (AAIA), new group formed, Sep.96
Automotive Leadership Institution (ALI), Shop Management Service Supremacy College courses, Dec.61
Automotive Lift Institute (ALI)
new Safety Standard for Automotive Lift Construction, May.72-73
reference manual, Jun.71
Automotive Management Institute (AMI)
All-Star Spring Seminars, Jan.49
business management courses offered, Sep.96
Course Catalog, Aug.63
Automotive Management Resources, job listing websites, Jul.75
Automotive Parts and Accessories Association (APAA), merger with Automotive Service Industry Association (ASIA) to form Automotive Aftermarket Industry Association (AAIA), Sep.96
Automotive Parts Rebuilders Association (APRA), new retirement plan announced, May.73
Automotive Performance Group, Royal Purple Synthetic Oil, Jan.49
Automotive Service Industry Association (ASIA), merger with Automotive Parts and Accessories Association (APAA) to form Automotive Aftermarket Industry Association (AAIA), Sep.96
Automotive Warehouse Distributors Association (AWDA), membership directory available, Jun.71
Beck/Arnley Worldparts (BWC)
master catalog, Aug.63
National Institute for Automotive Service Excellence (ASE) certification registration paid, Sep.96
new warranty policy, May.72
remanufactured rack and pinion brochure, Jun.71
True Blue Rewards program, Apr.66
TTY headbolts for various manufacturers, Mar.88
Bee Line, vinyl banner offered, Nov.78
Bendix, brake product catalogs, Aug.63
Bosal USA
exhaust system catalog, Jun.71
replacement import exhaust systems catalog, Jan.49, Nov.78
BRYCO by Carfel
Automatic Transmission Kits & Components Catalog, Jul.75
catalog collection on CD-ROM, Jan.48
BWD Automotive
carburetor tune-up kits & carburetor floats catalog, Apr.66
clutch applications catalog, Sep.96, Oct.40
ignition and electrical systems application guide, Feb.90
Car Care Parts
Temperature Control Application Guide, Jul.75
Temperature Control Illustrated Parts Guide, Jul.75
Cardone Industries
brake catalog, Mar.88
electric motors catalog supplement, Aug.63
offers constant velocity drive axles, May.73
RideSaver struts catalog, Jul.75
website, Feb.90
CARQUEST Auto Parts
Special Olympics World Summer Games, Dec.61
Gold Sponsor, Jan.48
Central Tools, precision measuring tools and work light catalog, Feb.90
Chicago Rawhide, CR Seals and SKF Bearings Application Guide, Nov.78
Clevite, Machinist of the Year competition, Mar.88
Contact East, name-brand tool and equipment catalog, Jun.71
Cottman Transmissions Systems, Better Business Bureau of Eastern Pennsylvania Marketplace Ethics Award, Jan.49
Crown Remanufacturing, reman fuel injectors catalog, Sep.96
CSK Auto, new website, Sep.96
Dana, purchase agreement with Federal-Mogul, Jan.48
DieselNet, upgraded website, Mar.88
Dozier Equipment, storage catalog and buyers guide, Apr.66
DuPont, increased production of Suva HFC-134a refrigerant, Oct.40
Edlemann, Power Steering System Products catalog, Apr.66
Elgin Industries, engine chassis catalog on CD-ROM, Dec.61
Evans Cooling Systems, NPG Coolant developed, Dec.61
Evap, temperature control products application guide, Sep.96
Federal-Mogul
expanded Sealed Power Platinum engine repair marketing program, Apr.66
Great TRW Chassis Sweepstakes winner announced, May.73
purchase agreement with Dana, Jan.48
Fel-Pro, High Performance Engine Building and Blueprinting School, Apr.66
Flaming River Industries, performance parts catalog, Jun.71
Fluke Corp., acquisition of Pomona Electronics, Jan.48
Garage Equipment Supply, automotive tools catalog, Apr.66
General Motors Corp., restoration parts website, Nov.78
Gent-l-kleen Products, rebates announced, Oct.40
GO/DAN Industries (GDI)
A/C condenser catalog, Aug.63
The Cold Facts brochure, Feb.90
GOJO, Professional Hand Care to Meet the Need catalog, Feb.90
Honda, gasoline-electric hybrid vehicle website, Aug.63
Hunter Engineering, 28 training centers, Jun.71
Independent Battery Manufacturers Assn. (IBMA), SLIG Buyers Guide, Mar.88
International Lubricants
Balkamp/LUBEGARD All-Star contest winner announced, Nov.78
Lubegard counter mat, Jun.71
International Mobile Air Conditioning Association (IMACA), certification testing begun, Oct.40
Jendham
Chrysler engine control systems training program, Dec.61
Pro-Link Plus GFC kit and training combination, Jan.48
John Bean Company, updated website, Oct.40
Kaeser Compressors
Getting the Most for Your Money catalog, Mar.88
ISO 14001 and ISO 9001 certification announced, Feb.90
Keeper Corp., cargo securing product catalog, Sep.96
KYB
gas shock absorber and ride control component catalog, Jan.48
shock/strut/street mount/boot catalog, Nov.78
L & S Automotive Products
Clutch Kit Catalog, May.72
Motor Mounts, Center Supports & Strut Mounts Catalog, May.72
U-Joint & CV Boot Catalog, May.72
Lincoln Automotive
lifting equipment catalog on CD-ROM, Jul.75
new catalog, Feb.90
portable lubrication equipment, systems and supplies catalog, Jan.49
Loctite Corp., acquired by Permatex, Inc., Nov.78
LS Industries, Automotive Equipment and Accessories catalog, Aug.63
LuK, RepSet Catalog, Mar.88
Mac Tools
1999 Mac Tools Master Mechanic announced, Apr.66
1999 National Ford/AAA Auto Repair Competition winners, Oct.40
Mac Performance Garage fan club announced, Aug.63
Maremont Exhaust Products
catalog supplement, Oct.40
Import Exhaust catalog, Feb.90
new exhaust parts catalog, Jul.75
Matco Tools, NHRA Matco Spring Supernationals sponsor, Dec.61
Micro Processor Systems, Inc. (MPSI)
E-store opening, Nov.78
Pro-Link Plus GFC kit and training combination, Jan.48
Midtronics, completion of GM essential tool program for Micro410 Battery Tester, Jan.48
Miller Electric Manufacturing, welding and plasma cutting product catalog, May.73
Modine Manufacturing, Master Products Catalog, Jul.75
Moog/Warner, You Drop the Flag service dealer promotion, Jun.71
Mopar Parts Division
Mopar Choice II Sweepstakes winner announced, Nov.78
Mopar Choice III Sweepstakes announced, Dec.61
The Chemicals Application Guide, May.72
Motorist Assurance Program (MAP), Uniform Inspection & Communications Standards, May.73
MotorSport Marketing, NASCAR and Winston Cup merchandise, Mar.88
NAPA
Brakes Performance Center Incentive Plan reinstated, May.72
NAPA/ASE Technician of the Year Award announced, Jan.48
NAPA Brakes
brake products sales promotion, Nov.78
new brake pad technology, Sep.96
National Institute for Automotive Service Excellence (ASE)
certification test deadline, Mar.88
Chairman's Award recipients named, May.72
test deadlines, Aug.63

New England Business Service (NEBS), new website, Apr.66
Osprey Systems, Inc., Internet launch systems, Mar.88
Parts Plus
new CarCareONE Credit Card, Jan.48
new training program, Jul.75
Parts Pro, Tool and Equipment Program begun, May.72
Perfect Circle
Chassis Parts catalog, Jan.48
Machinist of the Year competition, Mar.88
Permatex, Inc., acquired Loctite Corp., Nov.78
Pioneer, high-performance catalog, Jun.71
Pomona Electronics, acquired by Fluke Corp., Jan.48
Pro-Check, technician tool program, Mar.88
Pro-Cut International
PFM900 Smart Lathe CD-ROM, Feb.90
training vans in Texas and Indiana, Dec.61
Purolator, E-catalog available, Nov.78
Raybestos Brakes
Master Reference Guide, Jul.75
Tools and Equipment brochure, Oct.40
updated Brake and Safety Center program, Apr.66
Rema Tip Top, Mobile Training Units training dates announced, Oct.40
Roberk, All Weather wiper blade application guide, Sep.96
Rotary Lifts, Using Lifts Safely & Effectively, Jan.48
Safe Shop Tools, truck repair products catalog, Feb.90
Safety-Kleen
Gasoline Recovery Services program, Oct.40
used battery collection service available, Jul.75
Snap-On Tools, CD-based catalog, Apr.66
Speed-Pro, High Performance Engine Building and Blueprinting School, Apr.66
Stant
caps, thermostats, gaskets & seals catalog, Dec.61
radiator/fuel/oil filler cap catalog, Dec.61
Sunnen Products
Automotive Machinists Academy, Jun.71
celebrates 75th anniversary, Oct.40
Tenneco Automotive, Expert Plus marketing program, Sep.96
The Engine Connection
remanufactured automatic transmission catalog, Aug.63
Remanufactured Engines & Cylinder Heads catalog, Apr.66
TIF Instruments, Smooth Sailing With TIF Sweepstakes, Feb.90
Tomco, dual language counter mat, Aug.63
Tool Source, on line catalog, Jun.71
Toyota
STAR remanufactured parts and customer service available, Nov.78
Support To Aftermarket Repair (STAR) twice a day deliveries, Jun.71
Tracer Products
EZ/TITAN leak detection kit rebates, Mar.88
filter lens technology patent awarded, Sep.96
How to Turn Auto Leaks Into Super Profits guide, Nov.78
Pinpoint Every Leak!, Aug.63
Transmission Rebuilders Network International, 50,000th visitor recorded, Jun.71
TRICO, windshield wiper application guide, Sep.96
Victor Reinz, Machinist of the Year competition, Mar.88
Volvo, Exchange Parts Program additions, Oct.40
Wells Manufacturing
Cabinet Program announced, Nov.78
diagnostic information website, May.72
engine performance catalog and buyers guide, Jan.49
fuel injection parts catalog, Oct.40
Wire and Cable catalog, Jul.75
White Industries, A/C equipment catalog, Jul.75
Wise Industries, website launched, Aug.63
Wix Filters
60th anniversary, Jun.71
free metal filter storage cabinet, Dec.61
Joe Gibbs spokeman, May.72
oil and filter sales promotion, Nov.78
Zurich U.S., Dealer and Repair Pollution policy, Dec.61

G

G & L Marketing, System Guard tamper evident A/C sleeves, Sep.40
G-truck (Chevrolet/GMC)
4.3-liter, no upshift/stuck in 2nd (1996), Oct.30
5.7-liter, no upshift/stuck in 2nd (1996), Oct.30
6.5-liter
no upshift/stuck in 2nd (1996), Oct.30
stumble, stall, hard start (1996-97), Jan.40
7.4-liter, no upshift/stuck in 2nd (1996), Oct.30
G-van (Chevrolet/GMC)
4.3-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter
chuggle/surge (1996-97), Oct.32
CSFI poppet cleaning solvent (1996), Dec.58
6.5-liter diesel, driveability problems (1994-96), Jul.66-67
G3500 (Chevrolet/GMC), ABS light on (1993-95), Sep.82
Garage Equipment Supply, automotive tools catalog, Apr.66
Gates
cooling system clamp, Nov.81
DriveAlign automatic belt tensioners, Dec.63
Green Stripe SUPERSTAT thermostats, Feb.91
Technical Service Bulletins, Sep.99
GDI see GO/DAN Industries (GDI)
General Motors Corp.
see also specific models
3.1-liter, chemical reaction between grease on main seal and additive package of fresh motor oil, Jan.4
3.4-liter, chemical reaction between grease on main seal and additive package of fresh motor oil, Jan.4
1999 FutureCar Challange, Jul.56-58
A/C accumulator fittings, Apr.64-65
common clutch problems on pickups, Jun.63-64
coolant type (1996 and later), Aug.28
DA-6 vs HR-6 A/C compressors, Aug.57
differential fluids warning, Jan.62
fuel level sensor replacement in vans (1997-98), Oct.36
FutureTruck 2000 competition launched, Dec.56-57
product liability lawsuits, Aug.2
reprogramming PCMs, Nov.34-35
restoration parts website address, Nov.78
sticky EGR valve in trucks, Jun.69-70
Target Training, engine control systems on CD-ROM, Feb.91
truck, hard or no start (1992-96), Sep.95
Gent-l-kleen Products
Power Wipes Formula 2 hand cleaner towels, Jun.72
rebates announced, Oct.40
GO/DAN Industries (GDI)
A/C catalog, Oct.B35
A/C condenser catalog, Aug.63
The Cold Facts brochure, Feb.90
GOJO, Professional Hand Care to Meet the Need catalog, Feb.90
Gold Eagle Co., STA-BIL Fuel Stablizer, Dec.57
Golf III (Volkswagen), front wheel bearing clunk (1993-96), Jan.40
Golf (Volkswagen), 2.8-liter, trouble finding the air pump (1997 and newer), Nov.75
Gran Prix (Pontiac), fuel level sensor replacement (1997-98), Oct.36
Grand Am (Pontiac)
2.3-liter, poor heat (1992-93), Sep.86
ABS light on, DTCs 21 & 22 (1995), Aug.57
coated pistons (1996 and newer), Jan.44, 46
ETS OFF lights stays on, hot-soak rpm sag, scan tool communication corrupted (1995), Jun.60
false DTC P0121 (1997), Nov.74-75
Tech Preview, 2000, Sep.54
tricky ABS codes (1993-95), Jul.70
Grand Cherokee (Jeep)
bucking at wide open throttle (1996-98), Dec.58-59
electrical gremlins (1996-97), Jan.44
erratic oil pressure (1996), Jul.66
fuel sender recall (1997), Sep.87
mode lever moves to Defrost on acceleration (1993-96), Apr.62
PCM precaution (1996-98), Sep.93
rattling headrests (1993-95), May.63
timing adjustment for light spark knock (1996-97), Nov.76
Grand Marquis (Mercury)
ABS light comes on (1993), Jul.4
petroleum-based brake grease outlawed (1985-96), Jan.44
Grand Prix (Pontiac)
3.4-liter, phantom stalls (1991-93), Feb.82
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
noise on acceleration or driving uphill (1996), Jan.44
Gray Automotive, environmental parts washer, Oct.B35
GTI (Volkswagen), front wheel bearing clunk (1993-96), Jan.40

H

Hendrick Motorsports, website address, Mar.88
Hennessy Industries, Coats Model 1050 wheel balancer, Nov.64
Honda
see also specific models
1.3-liter, Victor Reinz, new design head gasket (1984-87), Feb.89
1.5-liter
seized cams (1984-93), Jul.66
Victor Reinz, new design head gasket (1984-87), Feb.89
gasoline-electric hybrid vehicle website address, Aug.63
Honda Wholesale Parts Express program, Dec.61
lean air/fuel ratio sensor, Sep.18, 18-23, 23
Hotlines, Getting the Most From Your Tech Hotline, Nov.40-41, 43, 45
Hummer, 6.5-liter, stumble, stall, hard start (1996-97), Jan.40
Hunter Engineering
28 training centers, Jun.71
Series 611 wheel alignment system, Nov.64
TC3500 tire changer, Jun.72
HVAC systems
see also Air conditioning systems
Mastering the Basics
correlation between pressure and temperature, Apr.38
pressure testing summary, Apr.40
R-134a refrigerant, Apr.38-39
the refrigeration cycle, Apr.37-38
using gauges, Apr.39
Hybrid American coolant see Coolants
Hybrid European coolant see Coolants
Hyundai
see also specific models
new website features parts ordering and service information, May.2
OBDII fuel trim capability (1996 on), Jul.69
SUV previewed, Feb.80-81

I

I30 (Infiniti)
2000 Import Tech Roundup, Dec.26-27
trans solenoid valve replacement tips (1996-97), Feb.86
water in EVAP canister (1996), May.58-59
IBMA see Independent Battery Manufacturers Assn, (IBMA)
ICA see International Copper Association (ICA)
Idle speed control systems, diagnosis and repair, Dec.18, 20
Ignition systems
coil-near-plug/coil-on-plug systems, Nov.14, 16, 18
diagnosing waste-spark DIS, 7-24-26, Jul.20-22
engine performance & maintenance inspection, Jul.52
Mastering the Basics
coil resistance, Jul.41
fat spark=good primary, Jul.40
fuel compression, Jul.39-40
Ignition Systems Assessment, Jul.43-44
no spark=more variety, Jul.40-41
primary voltage path, Jul.41-42
scratch test, Jul.42
sensors, Jul.42
IMACA see International Movile Air Conditioning Association (IMACA)
Impala (Chevrolet), Tech Preview, 2000, Sep.57-58
Impala SS (Chevrolet)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Imperial (Chrysler), Cruise Control-The Inside Story (1993), Mar.84-85
Imported New Vehicle Warranties, wall chart, Dec.33-40
Impreza (Subaru)
rear wheel bearing service precaution (up to 1995), Jan.46
shifter won't release from Park, Jan.40
Impulse (Isuzu), CS-series alternator troubles (1990), Jun.16-17
Incentives Based Policy Committee, new emissions testing technology, Jun.4
Independent Battery Manufacturers Assn. (IBMA), SLIG Buyers Guide, Mar.88
Injectoclean, CJ20 injector tester, Nov.55
Innova Electronics, Model 5568 digital timing light, Nov.55
Insight (Honda), previewed, Sep.79
International Automotive Technician's Network (iATN)
training resources on the Internet, Aug.16
website address, Aug.16
International Copper Association (ICA), new radiator technology, Apr.56
International Lubricants
Balkamp/LUBEGARD All-Star contest winner announced, Nov.78
LUBEGARD counter mat, Jun.71
LUBEGARD power steering fluid, Dec.62
International Mobile Air Conditioning Association (IMACA)
certification testing begun, Oct.40
website address, Oct.40
Internet
see also Computers; Software; World Wide Web
Editor's Report, predictions for the new millennium, Dec.4
Federal Trade Commission, avoiding Internet service scams, Sep.80-81
Hyundai, new parts ordering and service information website, May.2
Online Anywhere, accessing the Internet from your car, Aug.50-51
Osprey Systems, Inc., Internet launch systems, Mar.88
Tool Source, on line catalog, Jun.71
training resources, Aug.16, 18-19
using tracking software and websites to schedule maintenance, Feb.33
Vetronix Corp., accessing the Internet

1999 Motor Magazine Index

from your car, Aug.50-51
Interro Systems
ODA PC-Link full function engine analyzer, Nov.55
PST500 Personal Scan OBDII tool, Feb.91, Apr.74, Jun.79, Aug.66, Oct.B36, Dec.64
Intrepid (Dodge)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
coolant type (1998 on), Aug.28
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
rear stablizer link kit (1993-96), Sep.91
Intrigue (Oldsmobile), new model previewed, Nov.73
IS (Lexus), previewed, Feb.81
Isuzu
see also specific models
propylene glycol coolant use, Aug.59
ITAN see International Automotive Technician's Network (iTAN)

J

J-Body (General Motors), camber adjustment, Jun.26
J30 (Infiniti), engine knock (1994 and earlier), May.70
Jaguar
see also specific models
sedans, axle shaft vibration, May.70
Jeep
see also specific models
Mopar Parts Division
added to reman engine line, Aug.66, Sep.99, Nov.82
reman engines offered, Sep.99
nonadjustable camber (1990 and later), Jun.25
Jendham
engine control systems training program, Dec.61
Pro-Link Plus GFC kit and training combination, Jan.48
Jetta III (Volkswagen), front wheel bearing clunk (1993-96), Jan.40
Jetta (Volkswagen), 2.8-liter, trouble finding the air pump (1997 and newer), Nov.75
JIMCO, Inc., I60 starter/alternator test kit, Aug.22-23
Jimmy (GMC), false ABS code 65 (1991), Sep.95
John Bean Company, website address, Oct.40
Johnson Controls, Inc.
Inspira Thin Metal Foil (TMF) battery, Jan.32
new batteries with antitheft and power-saver features, Dec.57
Justice Brothers, diesel fuel treatment, Nov.80

K

K-Line, Auto Tuff AT3738 evaporative emissions system tester, Nov.55
Kaeser Compressors
Getting the Most for Your Money catalog, Mar.88
ISO 14001 and ISO 9001 certification announced, Feb.90
Kano Laboratories, Exrust rust remover, Mar.87
Keeper Corp., cargo securing product catalog, Sep.96
Kent-Moore Div., SPX
fuel tank siphoning hose, Sep.41-43
J-38792 Electronic Vibration Analyzer, Nov.58-59
J-42598 Vehicle Data Recorder, Nov.58
Tool Kit J-38751, terminals for Nissan and Infiniti sensors, Jan.14, Feb.20
KYB
gas shock absorber and ride control component catalog, Jan.48
shock/strut/street mount/boot catalog, Nov.78

L

L & S Automotive Products
Clutch Kit Catalog, May.72
Motor Mounts, Center Supports & Strut Mounts Catalog, May.72
U-Joint & CV Boot Catalog, May.72
L-series (Saturn)
midsize models previewed, Aug.51
new midsize model announced, Mar.79
Tech Preview, 2000, Sep.52, 54
L/H-series (Chrysler), fan doesn't work, A/C performance bad (1995-97), Aug.32-33
Lang Marketing Resources, Inc.
aftermarket product and service volume study results, Aug.52
light vehicle independent service market study results, Aug.51-52, Nov.71
Laser (Plymouth), 2-liter, timing belt replacement advice (1990-92), May.62
Lean Air/Fuel Sensors (LAF), diagnosing, Sep.18-23
LeBaron (Chrysler)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-95), Jun.67
Legacy (Subaru)
2000 Import Tech Roundup, Dec.27-28
rear wheel bearing service precaution (up to 1995), Jan.46
Legend (Acura), metallic engine knock (1991-93), Dec.60
Leica, automotive refractors, Oct.B36
Lenan Corp.
Lenair waste-oil heaters, Sep.100, Nov.85, Oct.B36, Dec.63
LeSabre (Buick)
2000 model previewed, Jan.34-37
noise on acceleration or driving uphill (1996), Jan.44
Tech Preview, 2000, Sep.54, 57
LHS (Chrysler)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
Lincoln Automotive
Eagle Series 91 air compressors, Feb.89
Guardian line of jacks, May.74
Hammerhead spigot pump, Oct.43
lifting equipment catalog on CD-ROM, Jul.75
Model 3633 waste oil drum, Jan.50
new catalog, Feb.90
portable lubrication equipment, systems and supplies catalog, Jan.49
Power Luber cordless grease gun, Apr.67, Sep.30
Lisle, adjustable spark plug boot puller, Sep.40
Literature
3M
Molded Shapes catalog, Feb.90
Tubing & Devices catalog, Feb.90
ABS Education Alliance, ABS information in Spanish, Jul.75
Alemite, Industrial Catalog, Aug.63
All Pro/Bumper to Bumper
A Guide to Automotive Maintenance, May.76
Auto Service Update newsletter, Nov.81
Automotive Service Center Resource Directory, Aug.65
automotive service center safety program, Sep.99
Automotive Service News, Jun.75
Lets Catch Some Customers brochure, Apr.73
AlliedSignal, Inc., Installer Merchandising Catalog, Nov.78
Associated Equipment, heavy-duty commercial battery charger catalog, May.73
ATK Engines
new engine catalog, Apr.73
remanufactured engines catalog, Apr.66
ATP, transmission service wall chart, Jul.75
Autodata Publications
Diagnostic Trouble Codes: Engine Management Systems, Nov.66-67
Timing Belts, Nov.66
Wiring Schematics: Engine Management Systems, Nov.66-67
Automotive Lift Institute (ALI), reference manual, Jun.71
Automotive Management Institute (AMI), Course Catalog, Aug.63
Automotive Warehouse Distributors Association (AWDA), membership directory available, Jun.71
Beck/Arnley Worldparts (BWC)
master catalog, Aug.63
remanufactured rack and pinion brochure, Jun.71
Bendix, brake product catalogs, Aug.63
Bosal USA
exhaust system catalog, Jun.71
replacement import exhaust systems catalog, Jan.49, Nov.78
BRYCO by Carfel
Automatic Transmission Kits & Components Catalog, Jul.75
catalog collection on CD-ROM, Jan.48
BWD Automotive
Borg-Warner Carburetor Tune-Up Kits & Carburetor Floats catalog, Apr.66
Borg-Warner Clutch Applications catalog, Sep.96, Oct.40
Borg-Warner Ignition and Electrical Systems Application Guide, Feb.90
Car Care Parts
Temperature Control Application Guide, Jul.75
Temperature Control Illustrated Parts Guide, Jul.75
Cardone Industries
brake catalog, Mar.88
Electric Motors Catalog Supplement, Aug.63
RideSaver struts catalog, Jul.75
CARS, Shop Management Tools for Success, Jan.55, Feb.92, Mar.95, Apr.74, Jun.79, Aug.66, Dec.64
Central Tools, precision measuring tools and work light catalog, Feb.90
Chek-Chart
2000 Car Care Guide, Dec.63
National Institute for Automotive Service Excellence (ASE) Study Guides, Sep.99, Oct.B34
Tire Fitment Guide, Jun.75, Jul.78, Aug.65
Chicago Rawhide, CR Seals and SKF Bearings Application Guide, Nov.78
Contact East, name-brand tool and equipment catalog, Jun.71
Crown Remanufacturing, reman fuel injectors catalog, Sep.96
Dozier Equipment, storage catalog and buyers guide, Apr.66
Edlemann, Power Steering System Products catalog, Apr.66
Evap, temperature control products application guide, Sep.96
EZ Red Co., full line catalog, Oct.B35
Flaming River Industries, performance parts catalog, Jun.71
Garage Equipment Supply, automotive tools catalog, Apr.66
Gates, Technical Service Bulletins, Sep.99
GO/DAN Industries (GDI)
A/C catalog, Oct.B35
A/C condenser catalog, Aug.63
The Cold Facts brochure, Feb.90
GOJO, Professional Hand Care to Meet the Need catalog, Feb.90
Independent Battery Manufacturers Assn. (IBMA), SLIG Buyers Guide, Mar.88
Kaeser Compressors, Getting the Most for Your Money catalog, Mar.88
Keeper Corp., cargo securing product catalog, Sep.96
KYB
gas shock absorber and ride control component catalog, Jan.48
shock/strut/street mount/boot catalog, Nov.78
L & S Automotive Products
Clutch Kit Catalog, May.72
Motor Mounts, Center Supports & Strut Mounts Catalog, May.72
U-Joint & CV Boot Catalog, May.72
Lincoln Automotive
new catalog, Feb.90
portable lubrication equipment, systems and supplies catalog, Jan.49
LS Industries, Automotive Equipment and Accessories catalog, Aug.63
LuK, RepSet Catalog, Mar.88
Maremont Exhaust Products
catalog supplement, Oct.40
Import Exhaust catalog, Feb.90
new exhaust parts catalog, Jul.75
Melling Engine, new engine parts catalog, Oct.B36
Miller Electric Manufacturing, welding and plasma cutting product catalog, May.73
Mitchell Publications, Technician's Collision Repair Guide, Nov.68
Modine Manufacturing, Master Products Catalog, Jul.75
Mohawk Lifts, lift comparison booklet, Oct.B36
Mopar Parts Division, The Chemicals Application Guide, May.72
MOTOR Magazine, back issues available, Oct.B37
MOTOR Publishing
1980-2000 MOTOR Labor Guide, Oct.B34
Heavy Truck Engine Performance & Wiring Manual, Oct.B37
imported parts and labor guide, Oct.B35
new waveform reference manual, Mar.95
Sensor Operation and Testing Manual, Mar.95
Shop Management Tools for Success, Oct.B39
spec guides, Oct.B38
Timing Belt Replacement Guide, Oct.B39
Transmission Parts and Time Guide, Oct.B36
Waveform Reference Manual, Apr.74
MOTOR/Alldata Systems, electronic automotive repair information, Nov.68
Motorist Assurance Program (MAP), Uniform Inspection & Communication Standards, May.73
OE Scheduled Maintenance Handbook, Feb.6
Perfect Circle, Chassis Parts catalog, Jan.48
Pioneer, high-performance catalog, Jun.71
Raybestos Brakes
Master Reference Guide, Jul.75
Tools and Equipment brochure, Oct.40
Roberk, All Weather wiper blade application guide, Sep.96
Safe Shop Tools, truck repair products catalog, Feb.90
service information availability, Nov.2
Snap-On Diagnostics
ScanLines, free newsletter, Mar.89, Apr.74, May.79, Jun.76, Jul.79, Aug.66, Sep.100, Oct.B37, Nov.82
SPX OTC, Ford tool catalog, Oct.B38
Stant, caps, thermostats, gaskets & seals catalog, Dec.61
The Engine Connection
remanufactured automatic transmission catalog, Aug.63
Remanufactured Engines & Cylinder Heads catalog, Apr.66
Toyota
Star Service News, free subscription, Feb.91, Mar.89, Apr.74, Jul.79, Aug.66, Sep.100, Oct.B39, Nov.85
Tracer Products
How to Turn Auto Leaks Into Super Profits guide, Nov.78
Pinpoint Every Leak!, Aug.63
Tracerline leak detection products catalog, Jun.75
training resources, Aug.16, 18-19
TRICO, windshield wiper application guide, Sep.96
Wells Manufacturing
engine performance catalog and buyers guide, Jan.49
fuel injection parts catalog, Oct.40
Wire and Cable catalog, Jul.75

White Industries, A/C equipment catalog, Jul.75
Loctite Corp., acquired by Permatex, Inc., Nov.78
LS Industries, Automotive Equipment and Accessories catalog, Aug.63
LS400 (Lexus), EVAP system diagnosis (1996-98), Jul.70-71
Lubrication
engine performance & maintenance inspection, Jul.52
OE Scheduled Maintenance, Tech Tips, Feb.63, 65
LuK
Pro Gold Series clutch kits, Feb.91
RepSet Catalog, Mar.88
RepSets and solid flywheels, Mar.89, May.79, Jul.78, Sep.100, Nov.81
Lumina APV (Chevrolet), worn hydraulic engine mounts (1990-92), May.71
Lumina (Chevrolet)
3.4-liter, phantom stalls (1991-93), Feb.82
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
intermittent electrical glitches (1992-95), Sep.91
noise on acceleration or driving uphill (1996), Jan.44
LX450 (Lexus), EVAP system diagnosis (1996-98), Jul.70-71
LX470 (Lexus), front suspension buzzing (1998), Nov.75

M

M/L-minivan (Chevrolet/GMC)
4.3-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
M/L-truck (Chevrolet/GMC), no upshift, intermittent DTCs (1995-96), Aug.59, 61
M30 (Infiniti), engine knock (1994 and earlier), May.70
Mac Tools
1999 Mac Tools Master Mechanic announced, Apr.66
1999 National Ford/AAA Auto Repair Competition winners, Oct.40
AR250 Seal-Head air ratchet, Nov.55
Mac Performance Garage fan club announced, Aug.63
The Rider wide-body creeper, Dec.62
MACS see Mobile Air Conditioning Society (MACS)
MAF see Mass airflow systems (MAF)
Malibu (Chevrolet)
biggest product liability award in US history, Aug.2
false DTC P0121 (1997), Nov.74-75
MAP see Motorist Assurance Program (MAP)
Maremont Exhaust Products
catalog supplement, Oct.40
Import Exhaust catalog, Feb.90
new exhaust parts catalog, Jul.75
Mark VIII (Lincoln)
downshift bump and shudder (1996), Mar.84
no start, no crank (1997), Jul.67-68
petroleum-based brake grease outlawed (1993-96), Jan.44
Marquette, Quick Kick portable battery pack, Oct.43
Mass Airflow Systems (MAF), Feb.24, 26-27
Mastering the Basics
battery, starter and charging system
battery basics, Jan.21-22
Charging and Starting Systems Assessment, Jan.25-26
charging system output test, Jan.24
inspecting the nuts, bolts and belts, Jan.22
the load test, Jan.22-23
starter current draw, voltage drop and speed tests, Jan.23-24
brake systems
ABS system assessment, Sep.75-76
bleeding sequences, Sep.74
disc brake pad grooves, Sep.72-73
proper heat transfer and friction, Sep.71-74
HVAC systems
Air Conditioning Systems Assessment, Apr.41-42
correlation between pressure and temperature, Apr.38
pressure testing summary, Apr.40
R-134a refrigerant, Apr.38-39
refrigeration cycle, Apr.37-38
using gauges, Apr.39
ignition systems
assesstment, Jul.43-44
check coil resistance, Jul.41
fat spark=good primary, Jul.40
follow the primary voltage path, Jul.41-42
fuel, compression & ignition, Jul.39-40
making sense of sensors, Jul.42
no spark=more variety, Jul.40-41
scratch test, Jul.42
introduction, Jan.2
Matco Tools
NHRA Matco Spring Supernationals sponsor, Dec.61
Pro-Swing ratcheting head wrench, Sep.39-40, Nov.55-56
Special Forces Ratchet and Socket System, Nov.56
Maxima (Nissan), 2000 Import Tech Roundup, Dec.26-27
Melling Engine, new engine parts catalog, Oct.B36
Mercedes Benz
see also specific models
coolant type, Aug.28
engine management system diagnosis, Dec.44
NetStar new communications system, Jun.57
Micro Processor Systems, Inc. (MPSI)
E-store opening, Nov.78
Pro-Link Plus GFC kit and training combination, Jan.48
ProLink 9000 OBDII software for Big, 3, Nov.56
website address, Nov.78
Midtronics
completion of GM essential tool program for Micro410 Battery Tester, Jan.48
PDF-40 portable multimeter, Oct.B36
PowerSensor Micro 400 Digital Battery Analyzer, Sep.32
Millenia (Mazda), trunk light stays on (1995), Dec.60
Miller Electric Manufacturing
website address, May.73
welding and plasma cutting product catalog, May.73
Mitchell Publications
Mitchell on Demand software pirated, Nov.71
Technician's Collision Repair Guide, Nov.68
Mitsubishi
see also specific models
Beck/Arnley Worldparts (BWC), TTY headbolts available, Mar.88
fouled spark plugs (up to 1996), Jul.71
MityVac/Prism
HIS Shooter injection system shooter, Aug.65, Dec.63
power steering bleeder, Jun.72
Mobil Oil, Tri-Synthetic oil, Jul.76
Mobile Air Conditioning Society (MACS), service report, Apr.27-30, 32-34
Modine Manufacturing, Master Products Catalog, Jul.75
Mohawk Lifts
lift comparison booklet, Oct.B36
MTL-9 above ground lift, Aug.64
Monroe Shocks, Reflex Shock Absorbers, new technology, Nov.71-72
Monte Carlo (Chevrolet)
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
Montero (Mitsubishi), service manual correction (1996), Jan.44
Moog Automotive
advice on ABS sensor rings, May.66, 68
Chrysler, steering gear service advice, Jan.41, 43
Moog/Warner, You Drop the Flag service dealer promotion, Jun.71
Mopar Parts Division
Chrysler gasket sets, Feb.91
fuel pumps meet OE specs, May.76
Jeep added to reman engine line, Aug.66, Sep.99, Oct.B35, Nov.82
line of OE timing belts, Apr.73
Mopar Choice II Sweepstakes winner announced, Nov.78
Mopar Choice III sweepstakes announced, Dec.61
new off/on fan clutch for Dodge Ram diesel, Mar.89
remanufactured electric fuel pumps, Jun.75
remanufacturered PCM for 2-liter engine, Jan.52
The Chemicals Application Guide, May.72
MOTOR Magazine
2000 Source Guide, Oct.4
2000 Source Guide website address, Oct.4
back issues available, Oct.B37
National Institute for Automotive Service Excellence (ASE) Technician of the Year announced, Dec.54
Service Slants on disk, Mar.95, Jun.79, Oct.B39
website address, Oct.B64
MOTOR Parts Bin see Literature; Parts, Accessories and Supplies; Tools and Equipment; Top Twenty Tools
MOTOR Publishing
1980-2000 MOTOR Labor Guide, Oct.B34
Heavy Truck Engine Performance & Wiring Manual, Oct.B37
imported parts and labor guide, Oct.B35
Sensor Operation and Testing Manual, Mar.95
Shop Management Tools for Success, Oct.B39
spec guides, Oct.B38
Timing Belt Replacement Guide, Oct.B39
Transmission Parts and Time Guide, Oct.B36
Waveform Reference Manual, Mar.95, Apr.74
MOTOR/Alldata Systems, electronic automotive repair information, Nov.68
Motorist Assurance Program (MAP)
Uniform Inspection & Communications Standards, Feb.70-71, May.73
website address, Jul.62
MotorSport Marketing, NASCAR and Winston Cup merchandise, Mar.88
MotorVac Technologies
CoolantClean coolant exchange system, Nov.56
Transtech II ATF exchanger, Apr.74, Jul.78
Mountaineer (Mercury)
ARC system service warnings (1995 and later), Jun.28
flashing O/D light (1998), Nov.74
shaky console, CD player skips (1997), May.65
upper control arm "square cams" (1995 and later), Jun.25
MPSI see Micro Processor Systems, Inc. (MPSI)
MPV (Mazda)
next generation minivan, Jun.57
power window noise (1997-98), Oct.34
Mustang Dynomometer, MD-1750 dynamometer, Nov.56
Mustang (Ford)
4.6-liter, broken serpentine belts (1996-98), Aug.56
missing low-side A/C service ports (1985-86), Oct.35-36
petroleum-based brake grease outlawed (1984-96), Jan.44
rocker arm noise (1994-96), Nov.77
Mystique (Mercury)
2-liter
hard/no start (1995-96), Sep.82, 84
potential engine timing mixup (1995-96), May.63
petroleum-based brake grease outlawed (1995-96), Jan.44

N

N-body (General Motors), camber adjustment, Jun.26
NAIAS see North American International Auto Show (NAIAS)
NAPA
Auto-Attitudes Report, Sep.4
Brakes Performance Center Incentive Plan reinstated, May.72
Honest Information About the Car Repair Industry campaign, Aug.4
NAPA/ASE Technician of the Year Award announced, Jan.48
NAPA Brakes
brake products sales promotion, Nov.78
new brake pad technology, Sep.96
NARSA see National Automotive Radiator Service Association (NARSA)
NASCAR
Techno Trucks:Rousch Racing, Mar.28-31
Toyota Racing Development (TRD), approval pending, Jan.33
National Automotive Radiator Service Association (NARSA)
A/C service tips, Aug.26-33
recommendations for coolant types, Aug.28-30
service tips, Aug.26-33
National Foundation of Independent Businesses, avoiding Internet service scams, Sep.80-81
National Highway Traffic Safety Administration, FutureTruck 2000 launched, Dec.56-57
National Hot Rod Association (NHRA), Dart Machinery: Engine Builders Extraordinaire, Mar.32-34
National Institute for Automotive Service Excellence (ASE)
certification test deadline, Mar.88
Chairman's Award recipients named, May.72
MOTOR Magazine, Technician of the Year announced, Dec.54
NAPA/ASE Technician of the Year Award announced, Jan.48
test deadlines, Aug.63
website address, Aug.63
National Science Foundation
1999 FutureCar Challange, Jul.56-58
FutureTruck 2000 launched, Dec.56-57
Natural Resources Canada, FutureTruck 2000 launched, Dec.56-57
Navigator (Lincoln), rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
NEBS see New England Business Service (NEBS)
Necar 3 (Mercedes Benz), fuel cell-powered car, May.55-56
Neon (Dodge/Plymouth)
2.0-liter, loss of oil pressure in turns (1995), Feb.86-87
A/C odor/poor defroster (1995-97), Sep.89
fan doesn't work, A/C performance bad (1995-97), Aug.32-33
flickering headlights (1995-96), Jan.38-40
no A/C, car overheats (1995-96), Jul.65
Tech Preview, 2000, Sep.58
New England Business Service (NEBS), website address, Apr.66
New United Motors Manufacturing, Inc. (NUMMI), alternator difficulties on NUMMI built cars, May.12, 14-15
New Yorker (Chrysler)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-93), Jun.67
no A/C (1993-95), Nov.77
New Yorker Fifth Avenue (Chrysler), Cruise Control-The Inside Story (1993), Mar.84-85
New Yorker Salon (Chrysler), Cruise Control-The Inside Story (1993), Mar.84-85
Newsbreak
Alero (Oldsmobile), new model previewed, Nov.73
amusing experiences of technicians

1999 Motor Magazine Index

survey, May.57-58
Automotive Parts and Accessories Association (APAA)
Automotive Service Industry Association (ASIA)
consolidation vote, Jun.57
form new association, May.56-57
Automotive Service Association (ASA)
annual convention report, May.60
new air standards blocked, Jul.58-59
Automotive Service Industry Association (ASIA)
Automotive Parts and Accessories Association (APAA)
consolidation vote, Jun.57
form new association, May.56-57
Battery Council International (BCI), recycling lead-acid batteries, Jan.32-33
BMW
fuel cell-powered car, May.55-56
new gasoline fuel cell, Sep.79-80
Brake Align, Inc., new brake service option, Dec.56
California votes for OBD system "Lock-Out" bill, Sep.79
CarLink car-sharing program, Apr.53-54
Championship Association of Mechanics (CAM) IndyCar Series Top Wrench Award winner announced, Mar.79-80
Commander (Jeep), fuel cell-powered car, May.55-56
Continental General Tire, two new tire and wheel systems announced, May.58-59
Council for Automotive Reliability (CAR), maintenance awareness campaign, Dec.54, 56
Dakota (Dodge), Quad Cab previewed, Feb.78, 80
Dana Brake and Chassis Division, added Spicer line of chassis and suspension parts, Nov.72
Delco Remy, in-solenoid anti-theft device, Dec.56
Delphi Automotive Systems
dry interface brake corners, May.56
new gasoline fuel cell for BMW, Sep.79-80
e-com (Toyota), new electric vehicle previewed, Jul.59, 61
Eclipse (Mitsubishi), new model reviewed, Aug.50
Enterprise Alliance, welcomes new members, Jan.34
Environmental Protection Agency (EPA), new OBD regulation, Apr.55-56
Equipment and Tool Institute (ETI), new president announced, Dec.57
Evoq (Cadillac), previewed, Feb.81
Exide, spiral-wound battery technology, Jul.58
Federal Trade Commission, avoiding Internet service scams, Sep.80-81
Flexpoint, new airbag technology, Sep.78
Focus (Ford), previewed, Feb.80
Ford Motor Co, Worldwide Diagnostic System (WDS), Apr.54-55
FutureCar Challenge results, Jul.56, 58
General Motors Corp., FutureTruck 2000 competition launched, Dec.56-57
Gold Eagle Co., STA-BIL Fuel Stablizer, Dec.57
Hyundai, SUV previewed, Feb.80-81
Insight (Honda), previewed, Sep.79
International Copper Association (ICA), new radiator technology, Apr.56
Intrique (Oldsmobile), new model previewed, Nov.73
IS (Lexus), previewed, Feb.81
Johnson Controls, Inc.
Inspira Thin Metal Foil (TMF) battery, Jan.32
new batteries with antitheft and power-saver features, Dec.57
L-series (Saturn)
midsize models previewed, Aug.51
new midsize model announced, Mar.79
Lang Marketing Resources, Inc.
aftermarket product and service volume study results, Aug.52
light vehicle independent service market survey results, Aug.51-52, Nov.71
LeSabre (Buick), 2000 model previewed, Jan.34-37
Mercedes Benz, NetStar new communications system, Jun.57
Mitchell Repair Information, Mitchell on Demand software pirated, Nov.71
Monroe Shocks, Reflex Shock Absorbers, new technology, Nov.71-72
MOTOR Magazine/National Institute for Automotive Service Excellence (ASE) Technician of the Year announced, Dec.54
Motorist Assurance Program (MAP), new requirements of membership, Jul.61-62
MPV (Mazda), next generation minivan, Jun.57
National Institute for Automotive Service Excellence (ASE), Technician of the Year announced, Dec.54
Necar 3 (Mercedes Benz), fuel cell-powered car, May.55-56
North American International Auto Show (NAIAS), Feb.77-78, 80-81
OBD availability bill, Jul.62
Online Anywhere, accessing the Internet from your car, Aug.50-51
P2000 (Ford), fuel cell-powered car, May.55-56
proposed industry standard, 42-volt electrical systems, Nov.70
PT Cruiser (Chrysler), previewed, Feb.77-78
R & B Inc., Dorman product line expanding, Nov.70
Racing for the Children program, Mar.78
Raytek Corp., noncontact thermometers used in racing, Mar.81
S80 (Volvo), fitted with Dynamic Stability and Traction Control (DSTC), Apr.54
Service Technicians Society (STS), new president installed, Apr.53
Sierra (GMC), new direct-injection diesel engine, Aug.52
Silverado (Chevrolet), new direct-injection diesel engine, Aug.52
Snap-On Dream Team announced, Mar.79
Society of Automotive Engineers (SAE), ECOCAR 2000 design competition, Apr.53
Sonata (Hyundai), 1999 model previewed, Jan.32
Taurus (Ford), safety features on 2000 model, Jun.56-57
Thunderbird (Ford), new model previewed, Feb.78
Toyota Racing Development (TRD), NASCAR approval pending, Jan.33
TT Coupe (Audi), previewed, Feb.80
Tundra (Toyota), full-size pickup unveiled, Jun.55-56
V V (Honda), previewed, Mar.80
Vetronix Corp., accessing the Internet from your car, Aug.50-51
X5 (BMW), new all-wheel drive Sports Activity Vehicle previewed, Jan.33-34
Z8 (BMW), previewed, Sep.80
Zeus, in-solenoid anti-theft device, Dec.56
NHRA see National Hot Rod Association (NHRA)
Ninety Eight (Oldsmobile)
false low-fuel warning light (1996), Jul.67
noise on acceleration or driving uphill (1995-96), Jan.44
Nissan
see also specific models
1.6-liter, deleted timing chain guides (1991-93), Jun.60-61
3.0-liter VG30
coolant leakage, Apr.14, 16
timing belt problems, Apr.14, 16
air conditioning systems, tracer dyes vs. electronic leak detectors survey results, Apr.28-29
Beck/Arnley Worldparts (BWC), TTY headbolts available, Mar.88
correct oil level and grade, Apr.63
intermittent injector failure in trucks, Feb.22-23
intermittent stalling when engine is warm, Feb.20, 22
relay testing precaution (1993), Dec.58
North American International Auto Show (NAIAS), Feb.77-78, 80-81
NSG Precision Cells, QR-70B hand-held digital refractometer, Aug.64
NUMMI see New United Motors Manufacturing, Inc. (NUMMI)
Nuts/Bolts, Bust That Rust, Jun.37-38, 40
inspecting the nuts, bolts and belts, Jan.22
NX (Nissan), cranks but won't start (1991-94), Feb.87-88

O

Oakland Community College, 1999 FutureCar Challange, Jul.56-58
OAT coolant see Coolants
OBD
see also Diagnostics; OBDII
California votes for OBD system "Lock-Out" bill, Sep.79
Environmental Protection Agency (EPA), new regulation, Apr.55-56
information availability bill passed, Jul.62
OBDII
see also Diagnostics; OBD
accurate diagnosis of problems, Oct.22, 24, 27
The Latest on OBDII, Jul.28-30, 32, 34
correction, Oct.B64
Odyssey (Honda), leaking power steering pump (1995-96), Jul.74
OE Scheduled Maintenance
Car Care Council, Certified Inspection Program, Feb.33
educating the customer, Feb.33-34
the importance of customer service, Feb.32-33
the importance of, Feb.6
keys to success, Feb.32-33
Merchandising Chart, Feb.35-42
Oil, Filters & Chassis Lubrication, correction, May.86
Tech Tips
air filter and PCV valve, Feb.52-53
ATF, filter and differential, Feb.49
ball joints and steering linkage, Feb.69
brake fluid and lines, Feb.43
brake pads, shoes, drums and rotors, Feb.45
chassis lubrication, Feb.65
coolant flush and fill, Feb.47
CV joints and boots, Feb.51
drivebelt inspection, Feb.48
exhaust systems, Feb.46
fuel filter, cap and lines, Feb.60
hose and clamp inspection, Feb.47-48
lights, Feb.66-67
oil change, Feb.63
oil filter change, Feb.63, 65
oxygen sensors, Feb.57
passenger compartment air filters, Feb.67
spark plugs and wires, Feb.53
steering system inspection and lubrication, Feb.68-69
timing belt, Feb.61
valve adjustments, Feb.59
wipers and washer system, Feb.66
tracking software and websites, Feb.33
On-Board Refueling Vapor Recovery Systems (ORVR), EPA regulation, Jul.28-30
Online Anywhere, accessing the Internet from your car, Aug.50-51
Organic Acid Technology (OAT) coolant see Coolants
ORVR see On-Board Refueling Vapor Recovery Systems (ORVR)
Osprey Systems, Inc.
Internet launch systems, Mar.88
website address, Mar.88
OTC
DART PCM reprogrammable system, Nov.35-37
Perception scope accessories, Mar.87
StrutTamer MacPherson strut spring compressor, Sep.35, Dec.62
Outback (Subaru), 2000 Import Tech Roundup, Dec.26-27, 27-28
Oxygen sensors, OE Scheduled Maintenance Tech Tips, Feb.57

P

P-truck (Chevrolet/GMC)
4.3-liter
CSFI poppet cleaning solvent (1996), Dec.58
no upshift/stuck in 2nd (1996), Oct.30
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter
CSFI poppet cleaning solvent (1996), Dec.58
no upshift/stuck in 2nd (1996), Oct.30
6.5-liter
no upshift/stuck in 2nd (1996), Oct.30
stumble, stall, hard start (1996-97), Jan.40
6.5-liter diesel, driveability problems (1994-96), Jul.66-67
7.4-liter, no upshift/stuck in 2nd (1996), Oct.30
P2000 (Ford), fuel cell-powered car, May.55-56
Park Avenue (Buick), noise on acceleration or driving uphill (1995-96), Jan.44
Parts, Accessories and Supplies
see also Literature; Tools and Equipment; Tools of the Trade; Top Twenty Tools
ACDelco
longest lasting batteries, Jan.52, Mar.95
replacement parts, Oct.B33, Dec.63
Ultraguard Gold gasket, Jul.78
AlliedSignal, Inc., Bendix MetLok disc brake pads, Oct.B33
ATP, Inc., AT-205 Re-Seal, Jan.52, Feb.91
Automotive Performance Group, Royal Purple Synthetic Oil, Jan.49
Beck/Arnley Worldparts (BWC)
brake pad kits, Aug.65
cabin filters for European imports, Jun.75
OE-quality import vehicle filters, Nov.81
reman starters and alternators, Oct.B34
Channellock, pliers, Oct.B34
Gates
DriveAlign automatic belt tensioners, Dec.63
Green Stripe SUPERSTAT thermostats, Feb.91
Johnson Control, Inspira Thin Metal Foil (TMF) battery, Jan.32
Leica, automotive refractors, Oct.B36
LuK
Pro Gold Series clutch kits, Feb.91
RepSets and solid flywheels, Mar.89, May.79, Jul.78, Sep.100, Nov.81
Mopar Parts Division
Chrysler gasket sets, Feb.91
Jeep added to reman engine line, Aug.66, Sep.99, Oct.B35, Nov.82
line of OE timing belts, Apr.73
new off/on fan clutch for Dodge Ram diesel, Mar.89
remanufactured electric fuel pumps, Jun.75
remanufacturered PCM for 2-liter engine, Jan.52
Prestolite Wire, spark plug wire sets, Mar.89
Quality Automotive
Gold Max disc brake pads, May.76, Jul.79, Oct.B37, Nov.82
Raybestos Brakes
Drift-Lok shims, Mar.89
Quiet Stop disc brake pads, Jun.75
Schley, harmonic damper pulley puller, Oct.B37
Spicer, professional grade chassis products, Oct.B38
Timken Peformance, bearings, Oct.B38
Volvo Cars, Exchange Parts Program, Oct.B39
Parts Plus
new CarCareONE Credit Card, Jan.48
new training program, Jul.75

Parts Pro, Tool and Equipment Program begun, May.72
Paseo (Toyota), replacing front axle hub nuts (1992-98), Oct.37
Passat (Volkswagen)
brake pad warning (1995 and newer), Nov.77
noisy A/C expansion valve (1993), Jun.70
PASSPORT, Enterprise Alliance, welcomes new members, Jan.34
Passport (Honda)
4WD light always on (1996-97), Feb.84
front window bind (1994-97), Jan.46
PCM see Powertrain Control Modules (PCM)
Perfect Circle
Chassis Parts catalog, Jan.48
Doctor of Motors degree, Jun.86
Machinist of the Year competition, Mar.88
Permatex, Inc., acquired Loctite Corp., Nov.78
Phoenix Systems, Power-Ject vacuum/pressure bleeder, Sep.31
Pioneer, high-performance catalog, Jun.71
Pomona Electronics, acquired by Fluke Corp., Jan.48-49
Powertrain Control Modules (PCM)
DART reprogrammable system, Nov.35-37
Ease Diagnostics, PCM service programming system, Sep.30-31
pros and cons of reprogramming, Nov.34-38
To Flash or Not to Flash, Nov.34-38
Vetronix Corp.
GM Service Programming System (SPS), Nov.36
reprogramming, Jul.28
Prelude (Honda), fifth-gear grind (1992-97), Mar.83
Prestolite Wire, spark plug wire sets, Mar.89
Prizm (Geo), frayed oxygen sensor (1993-97), Nov.20-21
Pro Spot, PR-10 Resistance Spot Welding System, Nov.68
Pro-Check, technician tool program, Mar.88
Pro-Cut International
PFM900 SmartLathe, Feb.90, Oct.B37, Nov.64-65
TorqStiks, Nov.65
training vans in Texas and Indiana, Dec.61
Probe (Ford)
driveability problems (1993-96), Sep.86-87
petroleum-based brake grease outlawed (1989-96), Jan.44
stiff steering after power steering gear replacement, Feb.84, 86
PT Cruiser (Chrysler)
previewed, Feb.77-78
tech preview, Sep.58
Pulsar (Nissan), 1.6-liter, rapping, rattling, knocking sound from inside timing cover (1989-90), Mar.18, 20-21
Purolator
e-catalog available, Nov.78
website address, Nov.78
Pyroil Performance Products, Diesel Fuel Treatment, Jan.50

Q

Q45 (Infiniti), poor A/C performance (1990-94), Jun.61-62
Quality Automotive
Gold Max disc brake pads, May.76, Jul.79, Oct.B37, Nov.82
Quest (Nissan)
fuel odor (1993-95), Jan.46
hard starting/driveability problems (1993-96), Sep.86
QX4 (Infiniti)
soft brake pedal (1997), Jan.41
special limited slip differential oil (1997), Jul.69
tips for towing, Oct.30-31

R

R & B Inc., Dorman product line expanding, Nov.70
Racing
Matco Tools, NHRA Matco Spring Supernationals sponsor, Dec.61
NASCAR and Winston Cup merchandise, Mar.88
noncontact thermometers used in, Mar.81
Racing for Children program, Mar.78
Roush Racing, Techno Trucks, Mar.28-31
Toyota Racing Development (TRD), Jan.33
Ram (Dodge)
3.9-liter, engine surge on the road (1994-95), Apr.58, 60
5.2-liter, engine surge on the road (1994-95), Apr.58, 60
5.8-liter, engine surge on the road (1994-95), Apr.58, 60
5.9-liter, revised diesel timing (1996), Jul.66
8.0-liter, engine bay moan (1994-97), Sep.91
brake pedal squawk (1995-96), Jan.47
bucking at wide open throttle (1996-98), Dec.58-59
clunking noise up front (1995-97), Aug.62
exhaust drone at idle (1994-95), Aug.57
fuel odor/dripping (1994-97), Nov.75
MIL on, emissions DTC set (1994-97), May.63, 65
mode lever moves to Defrost on acceleration (1994-96), Apr.62
Mopar Parts Division, new off/on fan clutch, Mar.89
PCM precaution (1996-98), Sep.93
ringing noise during light acceleration in 4th gear (1994-95), Jul.74
timing adjustment for light spark knock (1996-97), Nov.76
Range Rover (Land Rover)
3.9-liter, engine oil fill level (up to 1995), Jul.68
unstable idle (1993), Jun.62-63
Ranger (Ford)
flashing O/D light (1998), Nov.74
MIL on/DTC P1405 (1996), Oct.32
petroleum-based brake grease outlawed (1983-96), Jan.44
upper control arm "square cams" (1998 and later), Jun.25
RAV4 (Toyota)
new MAP sensor hose (1998), Nov.75
replacing front axle hub nuts (1996-98), Oct.37
Raybestos Brakes
H2O detector brake fluid test strips, Oct.B37
Master Reference Guide, Jul.75
Quiet Stop disc brake pads, Jun.75, Oct.43
Tools and Equipment brochure, Oct.40
updated Brake and Safety Center program, Apr.66
website address, Apr.66
Raytek Corp.
MiniTemp pocket infrared thermometer, Aug.65, Sep.98, 100, Nov.82, Dec.63
MX series non-contact thermometers, Jan.55, Jun.79
noncontact thermometers used in racing, Mar.81
Regal (Buick), noise on acceleration or driving uphill (1996), Jan.44
Rema Tip Top, Mobile Training Units training dates announced, Oct.40
Rethreader Tool, spark plug hole rethreader, Jul.76, Sep.38
Reumech A-Wagon, 6.5-liter, stumble, stall, hard start (1996-97), Jan.40
Riviera (Buick)
noise on acceleration or driving uphill (1995-96), Jan.44
worn hydraulic engine mounts (1986), May.71
Roadmaster (Buick)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Roberk, All Weather wiper blade application guide, Sep.96
Robert Bosch, Platinum+4 spark plugs, May.74
Robinair Div., SPX
Cool-Tech 34900 recovery, recycling and recharging unit, Apr.30
Cool-Tech I.D. refrigerant identifier, Nov.59-60
Rodeo (Isuzu)
3.2-liter
false transmission DTCs (1995), Jan.40-41
SOHC valve lifter service (1997), Jul.71
spark plug tube replacement (1993-97), Oct.31
Rotary Lift
SPOA9 asymmetrical surface lift, Nov.66
training program for lift safety, Jan.48
Roush Racing, Techno Trucks, Mar.28-31
RT/10 Roadster (Dodge), lack of power (1997), Oct.30
RTI Technologies
RHS780 A/C refrigerant handling system, Apr.30, 73, Jun.79
TC2670E refrigerant machine, May.76
Rust, Bust That Rust, Jun.37-38, 40
vintage rust-buster, Oct.B64

S

S & G Tool Aid, Computer Safe Logic Probe, Nov.80
S-type (Jaguar), 2000 Import Tech Roundup, Dec.26
S/T-truck (Chevrolet/GMC)
4.3-liter
CSFI poppet cleaning solvent (1996), Dec.58
low power, hesitation and stalling, DTCs (1997), Jul.68
surge/knock/rough idle/stall/DTC406 (1995), Sep.84-85
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
clutch chatter (1982-83), Jul.74
false HVAC DTC (1998), Sep.94
no upshift, intermittent DTCs (1995-96), Aug.59, 61
S4 (Audi), HVAC maintenance update (1992 newer), Jun.66-67
S6 (Audi), HVAC maintenance update (1992 newer), Jun.66-67
S70 (Volvo), evap DTCs EFI-611/EFI-612 (1998 and newer), Nov.75
S80 (Volvo), fitted with Dynamic Stability and Traction Control (DSTC), Apr.54
S420 (Mercedes Benz), 4.2-liter, MAF, O2 sensor codes (up to 1995), Jul.68-69
S2000 (Honda), 2000 Import Tech Roundup, Dec.23-24, 26
Sable (Mercury)
3.0-liter, stall/surge at speed (1996), Oct.30
camber adjustment (1986-95), Jun.25-26
clicking in reverse (1994-96), Apr.60
petroleum-based brake grease outlawed (1986-96), Jan.44
rocker arm noise (1989-95), Nov.77
SAE see Society of Automotive Engineers (SAE)
Safari (GMC), false ABS code 65 (1991), Sep.95
Safe Shop Tools
truck repair products catalog, Feb.90
Versa-Vac cooling system service tool, May.74
Safety
All Pro/Bumper to Bumper, automotive service center safety program, Sep.99
Automotive Lift Institute (ALI), new Safety Standard for Automotive Lift Construction, May.72-73
OE Scheduled Maintenance Tech Tips, Feb.66-67
lights, Feb.66-67
passenger compartment air filters, Feb.67
wipers and washer system, Feb.66
precautions when working on vehicles with SRS systems, Mar.24-27
Rotary Lifts, Using Lifts Safely & Effectively, Jan.48
Safety-Kleen
Gasoline Recovery Services program, Oct.40
used battery collection service available, Jul.75
Santronics, Short Finder diagnostic tool, Sep.98
Saturn
see also specific models
stall on deceleration when hot, Aug.16, 18-19
stalls when stopping (1991-95), Jul.69-70
SC400 (Lexus), EVAP system diagnosis (1996-98), Jul.70-71
Schley Products
harmonic damper pulley puller, Sep.32-33, Oct.B37
Scoupe (Hyundai), harsh 4-3 downshift (1991-92), Jun.64, 66
Sebring (Chrysler)
2.0-liter, MIL on with hex code $3A (1995-97), Sep.84
A/C odor/poor defroster (1995-97), Sep.89
ABS diagnostic trouble codes (1998), Oct.36-37
Cruise Control-The Inside Story (1995), Mar.84-85
ripped air filter (1996), Jun.60
Sentra (Nissan)
1.6-liter, rapping, rattling, knocking sound from inside timing cover (1989-91), Mar.18, 20-21
cranks but won't start (1991 on), Feb.87-88
Service Slants
3-series (BMW)
2.5-liter, A/C belt tensioner noise (1992 on), Apr.65
starter burns out (up to 1994), Dec.59-60
5-series (BMW)
2.5-liter, A/C belt tensioner noise (1992 on), Apr.65
starter burns out (up to 1994), Dec.59-60
7-series (BMW), starter burns out (up to 1994), Dec.59-60
80 (Audi), erratic shifting (1991 and later), Aug.62
90 (Audi), erratic shifting (1991 and later), Aug.62
100 (Audi)
erratic shifting (1991 and later), Aug.62
HVAC maintenance update (1992 newer), Jun.66-67
200SX (Nissan), cranks but won't start (1995 on), Feb.87-88
300ZX Turbo (Nissan), slipping clutch (1990-91), May.65
318ti (BMW), noisy A/C (1996), Apr.60
325i (BMW), 2.5-liter, false TPS code (1995), Jun.67, 69
525i (BMW), 2.5-liter, false TPS code (1995), Jun.67, 69
626 (Mazda), stiff steering after power steering gear replacement, Feb.84, 86
850 (Volvo)
2.3-liter, coolant leakage caution (1992 and newer), Feb.88
belt noise (1992-93), Apr.65
belt routing change (1992 and newer), Nov.77
damaged condenser/radiator grille guard (1994-96), Sep.91
evap DTCs EFI-611/EFI-612 (1996-97), Nov.75
whining noise from radio (1992 and newer), Dec.59
900 (Saab)
2.3-liter, revised cylinder head (1997), Nov.75-76
binding throttle lever recall (1994-97), Oct.37
defective fuel pump recall (1997), Dec.59
hard starting (1990-93), Feb.88
oil filter specs, Jan.47
steel engine sealing washers (1994-95), Jun.70
911 Carrera 2 (Porsche), new power steering fluid (1989-94), Jul.71-72
911 Carrera 4 (Porsche), new power

1999 Motor Magazine Index

steering fluid (1989-94), Jul.71-72
911 Carrera (Porsche)
clutch pressure plate service (1995 and newer), Jan.44
new power steering fluid (1995 on), Jul.71-72
oxygen sensor trouble (1995 and newer), Oct.37
911 Turbo (Porsche)
new power steering fluid (1991-92, 1994), Jul.71-72
oxygen sensor trouble (1995 and newer), Oct.37
960 (Volvo), 2.9-liter, sealed engine bolts (1992 and later), Jul.70
968 (Porsche), new door switch, glove box light (1992-94), Apr.65
991 Turbo (Porsche), clutch pressure plate service (1996 and newer), Jan.44
6000 (Pontiac), worn hydraulic engine mounts (1985-92), May.71
9000 (Saab)
2.3-liter, revised cylinder head (1997), Nov.75-76
defective fuel pump recall (1997), Dec.59
inflatable restraint recall (1992-94), Aug.61
oil filter specs, Jan.47
steel engine sealing washers (1994-95), Jun.70
A4 (Audi)
multiple DTCs (1995 and newer), May.71
suspension changes (1996 and newer), Oct.31-32
A4 Quattro (Audi), suspension changes (1996 and newer), Oct.31-32
A6 (Audi)
HVAC maintenance update (1992 newer), Jun.66-67
multiple DTCs (1995 and newer), May.71
Accent (Hyundai), harsh 4-3 downshift (1996), Jun.64, 66
Acclaim (Plymouth)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-95), Jun.67
Accord (Honda)
buzzing noise from exhaust (1994-96), May.63
fifth-gear grind (1994-97), Mar.83
leaking ABS modulator (1994-96), Sep.87
leaking power steering pump (1994-97), Jul.74
no TCC lockup (1996-97), Aug.57
pinholes in A/C evaporator (1994-97), Apr.60
Achieva (Oldsmobile)
2.3-liter, poor heat (1992-93), Sep.86
ABS light on, DTCs 21 & 22 (1995), Aug.57
coated pistons (1996 and newer), Jan.44, 46
ETS OFF light stays on, hot-soak rpm sag, scan tool communication corrupted (1995), Jun.60
false DTC P0121 (1997), Nov.74-75
tricky ABS codes (1993-95), Jul.70
Acura, (except SLX), poor A/C performance (1994 and newer), Apr.60, 62
Aerostar (Ford)
petroleum-based brake grease outlawed (1986-96), Jan.44
upper ball joint service (1986-95), Jul.72, 74
Altima (Nissan)
cold weather misfire on number 2 cylinder (1995-96), Mar.83
cranks but won't start (1993 on), Feb.87-88
front cover oil leak (1993-95), Oct.34-35
AM General Hummer, 6.5-liter, stumble, stall, hard start (1996-97), Jan.40
Aspire (Ford), petroleum-based brake grease outlawed (1994-96), Jan.44
Astro (Chevrolet), false ABS code 65 (1991), Sep.95
Audi, differential oil meltdown (1993 and earlier), Mar.86
Aurora (Oldsmobile), 4-liter, PCM calibration enhancements (1997), Nov.76-77
Avenger (Dodge)
2.0-liter, engine ticking noise, EGR fault (1995), Jul.70
2.0-liter, MIL on with hex code $3A (1995-97), Sep.84
ABS diagnostic trouble codes (1998), Oct.36-37
Cruise Control-The Inside Story (1995), Mar.85
B-series truck (Ford), petroleum-based brake grease outlawed (1990-96), Jan.44
Beretta (Chevrolet)
2.2-liter, stalling, rough running, no starts, code 42 (1990-91), Apr.58
coated pistons (1996 and newer), Jan.44, 46
tricky ABS codes (1993-95), Jul.70
Blazer (Chevrolet), false ABS code 65 (1991), Sep.95
BMW, hard pedal, poor brakes (up to 1992), Aug.61-62
Bonneville (Pontiac), noise on acceleration or driving uphill (1995-96), Jan.44
Bravada (Oldsmobile)
4.3-liter, low power, hesitation and stalling, DTCs (1996), Jul.68
4.3-liter, MIL on with poor driveability (1996-97), Sep.90-91
4.5-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, MIL on with poor driveability (1996-97), Sep.90-91
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, MIL on with poor driveability (1996-97), Sep.90-91
Breeze (Plymouth)
A/C odor/poor defroster (1995-97), Sep.89
noisy steering (1995-96), Jan.46-47
Bronco (Ford)
petroleum-based brake grease outlawed (1990-96), Jan.44
ratcheting front axle (1995-96), Sep.85
C-series truck (Ford), petroleum-based brake grease outlawed (1990-91), Jan.44
C/K-truck (Chevrolet/GMC)
4.3-liter, no upshift/stuck in 2nd (1994-95), Oct.30
4.5-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, chuggle/surge (1996-97), Oct.32
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, no upshift/stuck in 2nd (1994-95), Oct.30
6.5-liter diesel, driveability problems (1994-96), Jul.66-67
6.5-liter, no upshift/stuck in 2nd (1994-95), Oct.30
6.5-liter, stumble, stall, hard start (1996-97), Jan.40
7.4-liter, no upshift/stuck in 2nd (1994-95), Oct.30
no upshift, intermittent DTCs (1995-96), Aug.59, 61
Cabriolet (Audi), multiple DTCs (1995 and newer), May.71
Camaro (Chevrolet), 5.7-liter, oil leaks (1993-97), Jul.66-67
Camry (Toyota)
charcoal canister humming noise (1996-97), Sep.84
new trunk torsion rods (1992-96), Apr.64
replacing front axle hub nuts (1992-98), Oct.37
Capri (Mercury)
missing low-side A/C service ports (1985-86), Oct.35-36
petroleum-based brake grease outlawed (1991-94), Jan.44
Caprice (Chevrolet)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Caravan (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-96), Mar.84-85
front suspension noise (1994-95), Jul.68
intermittent rough idle (1991-95), Jun.67
missing, stalling, gear hunting (1996), May.66
Cavalier (Chevrolet)
2.2-liter, stalling, rough running, no starts, code 42 (1990-91), Apr.58
2.4-liter, intermittent MIL, DTC P0107 (1996), Jun.64
rear thumping noise (1995-97), May.63
tricky ABS codes (1993-95), Jul.70
Celebrity (Chevrolet), worn hydraulic engine mounts (1985-92), May.71
Celica (Toyota), replacing front axle hub nuts (1992-98), Oct.37
Century (Buick)
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
worn hydraulic engine mounts (1985-92), May.71
Cherokee (Jeep)
fuel sender recall (1997), Sep.87
PCM precaution (1996-98), Sep.93
timing adjustment for light spark knock (1996-97), Nov.76
Chevrolet/GMC
fuel level sensor replacement in vans (1997-98), Oct.36
hard or no start in trucks (1992-96), Sep.95
sticky EGR valve in trucks, Jun.69-70
Chrysler
no-start diagnosis (1997), Oct.34
steering gear service, Jan.41, 43
Y2K bug information, Aug.57
Ciera (Oldsmobile)
coated pistons (1996 and newer), Jan.44, 46
worn hydraulic engine mounts (1985-92), May.71
Cirrus (Chrysler)
A/C odor/poor defroster (1995-97), Sep.89
Cruise Control-The Inside Story (1995), Mar.84-85
moisture in taillights (1995), Mar.82-83
no A/C (1995), Nov.77
noisy steering (1995-96), Jan.46-47
ripped air filter (1995-96), Jun.60
water in fuel fill door (1995), Nov.74
Civic (Honda)
leaking power steering pump (1992-95), Jul.74
no TCC lockup (1996-97), Aug.57
noisy timing belt (1996), Jan.40
pinholes in A/C evaporator (1994-97), Apr.60
rough feel in accelerator pedal (1996), Sep.93
CL (Acura), 3-liter, Delco CS-series alternator problems, Jul.10, 12-13
Colt (Dodge), new connector lock (1994-95), Mar.83-84
Colt Vista (Dodge), delayed shifting when cold (1991-94), Feb.84
Concorde (Chrysler)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
rear stablizer link kit (1993-96), Sep.91
Concours (Cadillac)
4.6-liter, cranks but won't start (1994-95), May.70-71
4.6-liter, DTC P039 sets after cold start (1994-95), Nov.75
4.6-liter, PCM calibration enhancements (1997), Nov.76-77
Continental (Lincoln)
clicking in reverse (1995-96), Apr.60
low oil level warning (1995-96), May.68
MIL on/DTC 0411 (prior to 8-6-96), Jan.40
petroleum-based brake grease outlawed (1982-96), Jan.44
rocker arm noise (1989-94), Nov.77
Contour (Ford)
2.0-liter, hard/no start (1995-96), Sep.82, 84
2.0-liter, potential engine timing mixup (1995-96), May.63
petroleum-based brake grease outlawed (1995-96), Jan.44
Corolla (Toyota), replacing front axle hub nuts (1992-98), Oct.37
Corsica (Chevrolet)
2.2-liter, stalling, rough running, no starts, code 42 (1990-91), Apr.58
coated pistons (1996 and newer), Jan.44, 46
tricky ABS codes (1993-95), Jul.70
Corvette (Chevrolet), 5.7-liter, oil leaks (1992-96), Jul.66-67
Cougar (Mercury)
4.6-liter, lit MIL, water in MAF sensor (1996), Jul.66
missing low-side A/C service ports (1986, 1989), Oct.35-36
petroleum-based brake grease outlawed (1984-96), Jan.44
rocker arm noise (1989-96), Nov.77
Crown Victoria (Ford), petroleum-based brake grease outlawed (1985-96), Jan.44
Cutlass (Oldsmobile), false DTC P0121 (1997), Nov.74-75
Cutlass Supreme (Oldsmobile)
3.4-liter, phantom stalls (1991-93), Feb.82, 84
coated pistons (1996 and newer), Jan.44, 46
noise on acceleration or driving uphill (1996), Jan.44
D21 truck (Nissan), 2.4-liter, hard shifting, binding clutch (1990-91), Jan.40
Dakota (Dodge)
brake pedal squawk (1995-96), Jan.47
bucking at wide open throttle (1996-98), Dec.58-59
PCM precaution (1996-98), Sep.93
timing adjustment for light spark knock (1996-97), Nov.76
Daytona (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993), Mar.84-85
intermittent rough idle (1991-93), Jun.67
Defender (Land Rover)
3.9-liter, engine oil fill level (up to 1995), Jul.68
unstable idle (1993), Jun.62-63
Del Sol (Honda), pinholes in A/C evaporator (1994-95), Apr.60
DeVille (Cadillac)
4.6-liter, cranks but won't start (1994-95), May.70-71
4.6-liter, DTC P039 sets after cold start (1994-95), Nov.75
4.6-liter, PCM calibration enhancements (1997), Nov.76-77
Discovery (Land Rover), transfer case whine (1994-95), Apr.62
Durango (Dodge)
bucking at wide open throttle (1996-98), Dec.58-59
PCM precaution (1996-98), Sep.93
Dynasty (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993), Mar.84-85
intermittent rough idle (1991-93), Jun.67
E-350 (Ford), melted glow plug relay (1995), Jun.66
E420 (Mercedes Benz), 4.2-liter, MAF, O2 sensor codes (up to 1995), Jul.68-69
Eclipse (Mitsubishi)
2.0-liter, erratic idle, power loss and MIL lit (1995-96), Feb.84
2.0-liter, timing belt replacement advice (1990-92), May.62
Econoline (Ford)
7.3-liter, new RTV sealant (1995 on), Mar.82
correction to June, 99 Service Slants, Ford trucks, no blower motor

UMI

ADVERTISING PAGES B49-B50 ARE MISSING

1999 Motor Magazine Index

operation, Nov.76
false ABS DTCs (1994-96), Jul.70
no blower motor operation (1992-93), Jun.58, 60
petroleum-based brake grease outlawed (1990-96), Jan.44
rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
Eighty Eight LSS (Oldsmobile), noise on acceleration or driving uphill (1996), Jan.44
Eighty Eight (Oldsmobile)
false low-fuel warning light (1996), Jul.67
noise on acceleration or driving uphill (1995-96), Jan.44
Elantra (Hyundai)
harsh 4-3 downshift (1992-96), Jun.64, 66
synchro identification (1997), Jan.44
Eldorado (Cadillac)
4.6-liter, cranks but won't start (1994-95), May.70-71
4.6-liter, DTC P039 sets after cold start (1993-95), Nov.75
4.6-liter, PCM calibration enhancements (1997), Nov.76-77
ES300 (Lexus)
EVAP system diagnosis (1996-98), Jul.70-71
harsh shifts (1994), May.68
Escort (Ford)
2.0-liter, bad EGR hose routing (1997), Feb.82
petroleum-based brake grease outlawed (1985-96), Jan.44
Everco Temperature Control Products, hands-on quick check of vehicles with orifice tube A/C systems, Mar.85-86
Excel (Hyundai), harsh 4-3 downshift (1990-94), Jun.64, 66
Expedition (Ford), rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
Explorer (Ford)
binding transfer case (1995-97), Sep.91-93
flashing O/D light (1998), Nov.74
petroleum-based brake grease outlawed (1991-96), Jan.44
shaky console, CD player skips (1995-97), May.65
F-150 (Ford)
ratcheting front axle (1995-96), Sep.85
rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
F-250 (Ford)
5.8-liter, gear rattle (1988-95), Aug.61
7.3-liter, new RTV sealant (1995 on), Mar.82
melted glow plug relay (1994-95), Jun.66
rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
F-350 (Ford)
5.8-liter, gear rattle (1988-95), Aug.61
7.3-liter, new RTV sealant (1995 on), Mar.82
melted glow plug relay (1994-95), Jun.66
F-series truck (Ford), petroleum-based brake grease outlawed (1990-96), Jan.44
F-Super Duty (Ford)
7.3-liter, new RTV sealant (1995 on), Mar.82
melted glow plug relay (1994-95), Jun.66
petroleum-based brake grease outlawed (1990-96), Jan.44
Festiva (Ford), read brake squeal (1988-89), Dec.58
Firebird (Pontiac), 5.7-liter, oil leaks (1993-97), Jul.66-67
Fleetwood (Cadillac)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Ford Motor Co.
common clutch problems on pickups, Jun.63-64
testing an IAR alternator, Jul.68
G-truck (Chevrolet/GMC)
4.3-liter, no upshift/stuck in 2nd (1994-96), Oct.30
5.7-liter, no upshift/stuck in 2nd (1994-96), Oct.30
6.5-liter, no upshift/stuck in 2nd (1994-96), Oct.30
6.5-liter, stumble, stall, hard start (1996-97), Jan.40
7.4-liter, no upshift/stuck in 2nd (1994-96), Oct.30
G-van (Chevrolet/GMC)
4.5-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, chuggle/surge (1996-97), Oct.32
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
6.5-liter diesel, driveability problems (1994-96), Jul.66-67
G3500 (Chevrolet/GMC), ABS light on (1993-95), Sep.82
General Motors Corp.
A/C accumulator fittings, Apr.64-65
common clutch problems on pickups, Jun.63-64
DA-6 vs HR-6 A/C compressors, Aug.57
Golf III (Volkswagen), front wheel bearing clunk (1993-96), Jan.40
Golf (Volkswagen), 2.8-liter, trouble finding the air pump (1997 and newer), Nov.75
Gran Prix (Pontiac), fuel level sensor replacement (1997-98), Oct.36
Grand Am (Pontiac)
2.3-liter, poor heat (1992-93), Sep.86
ABS light on, DTCs 21 & 22 (1995), Aug.57
coated pistons (1996 and newer), Jan.44, 46
ETS OFF lights stays on, hot-soak rpm sag, scan tool communication corrupted (1995), Jun.60
false DTC P0121 (1997), Nov.74-75
tricky ABS codes (1993-95), Jul.70
Grand Cherokee (Jeep)
bucking at wide open throttle (1996-98), Dec.58-59
electrical gremlins (1996-97), Jan.44
erratic oil pressure (1996), Jul.66
fuel sender recall (1997), Sep.87
mode lever moves to Defrost on acceleration (1993-96), Apr.62
PCM precaution (1996-98), Sep.93
rattling headrests (1993-95), May.63
timing adjustment for light spark knock (1996-97), Nov.76
Grand Marquis (Mercury), petroleum-based brake grease outlawed (1985-96), Jan.44
Grand Prix (Pontiac)
3.4-liter, phantom stalls (1991-93), Feb.82, 84
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
noise on acceleration or driving uphill (1996), Jan.44
GTI (Volkswagen), front wheel bearing clunk (1993-96), Jan.40
Honda, 1.5-liter, seized cams (1984-93), Jul.66
Hyundai, OBDII fuel trim capability (1996 on), Jul.69
I30 (Infiniti)
trans solenoid valve replacement tips (1996-97), Feb.86
water in EVAP canister (1996), May.58-59
Impala SS (Chevrolet)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Imperial (Chrysler), Cruise Control-The Inside Story (1993), Mar.84-85
Impreza (Subaru)
rear wheel bearing service precaution (up to 1995), Jan.46
shifter won't release from Park, Jan.40
International Lubricants, LUBEGARD power steering fluid, Dec.62
Intrepid (Dodge)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
rear stablizer link kit (1993-96), Sep.91
Isuzu, propylene glycol coolant use, Aug.59
J30 (Infiniti), engine knock (1994 and earlier), May.70
Jaguar, sedans, axle shaft vibration, May.70
Jetta III (Volkswagen), front wheel bearing clunk (1993-96), Jan.40
Jetta (Volkswagen), 2.8-liter, trouble finding the air pump (1997 and newer), Nov.75
Jimmy (GMC), false ABS code 65 (1991), Sep.95
Laser (Plymouth), 2-liter, timing belt replacement advice (1990-92), May.62
LeBaron (Chrysler)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-95), Jun.67
Legacy (Subaru), rear wheel bearing service precaution (up to 1995), Jan.46
Legend (Acura), metallic engine knock (1991-93), Dec.60
LeSabre (Buick), noise on acceleration or driving uphill (1996), Jan.44
LHS (Chrysler)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
LS400 (Lexus), EVAP system diagnosis (1996-98), Jul.70-71
Lumina APV (Chevrolet), worn hydraulic engine mounts (1990-92), May.71
Lumina (Chevrolet)
3.4-liter, phantom stalls (1991-93), Feb.82, 84
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
intermittent electrical glitches (1992-95), Sep.91
noise on acceleration or driving uphill (1996), Jan.44
LX450 (Lexus), EVAP system diagnosis (1996-98), Jul.70-71
LX470 (Lexus), front suspension buzzing (1998), Nov.75
M/L-minivan (Chevrolet/GMC)
4.5-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
M/L-truck (Chevrolet/GMC), no upshift, intermittent DTCs (1995-96), Aug.59, 61
M30 (Infiniti), engine knock (1994 and earlier), May.70
Malibu (Chevrolet), false DTC P0121 (1997), Nov.74-75
Mark VIII (Lincoln)
downshift bump and shudder (1996), Mar.84
no start, no crank (1997), Jul.67-68
petroleum-based brake grease outlawed (1993-96), Jan.44
Millenia (Mazda), trunk light stays on (1995), Dec.60
Misubishi, fouled spark plugs (up to 1996), Jul.71
Monte Carlo (Chevrolet)
coated pistons (1996 and newer), Jan.44, 46
false DTC P0121 (1997), Nov.74-75
Montero (Mitsubishi), service manual correction (1996), Jan.44
Moog, advice on ABS sensor rings, May.66, 68
Mountaineer (Mercury)
flashing O/D light (1998), Nov.74
shaky console, CD player skips (1997), May.65
MPV (Mazda), power window noise (1997-98), Oct.34
Mustang (Ford)
4.6-liter, broken serpentine belts (1996-98), Aug.56
missing low-side A/C service ports (1985-86), Oct.35-36
petroleum-based brake grease outlawed (1984-96), Jan.44
rocker arm noise (1994-96), Nov.77
Mystique (Mercury)
2.0-liter, hard/no start (1995-96), Sep.82, 84
2.0-liter, potential engine timing mixup (1995-96), May.63
petroleum-based brake grease outlawed (1995-96), Jan.44
Navigator (Lincoln), rough running/MIL lit/DTCs stored (1997-98), Sep.89-90
Neon (Dodge/Plymouth)
2.0-liter, loss of oil pressure in turns (1995), Feb.86-87
A/C odor/poor defroster (1995-97), Sep.89
flickering headlights (1995-96), Jan.38-40
no A/C, car overheats (1995-96), Jul.65
New Yorker (Chrysler)
3.5-liter, light surge on smooth roads (1996-97), Dec.58
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-93), Jun.67
no A/C (1993-95), Nov.77
New Yorker Fifth Avenue (Chrysler), Cruise Control-The Inside Story (1993), Mar.84-85
New Yorker Salon (Chrysler), Cruise Control-The Inside Story (1993), Mar.84-85
Ninety Eight (Oldsmobile)
false low-fuel warning light (1996), Jul.67
noise on acceleration or driving uphill (1995-96), Jan.44
Nissan
1.6-liter, deleted timing chain guides (1991-93), Jun.60-61
correct oil level and grade, Apr.63
relay testing precaution (1993), Dec.58
NX (Nissan), cranks but won't start (1991-94), Feb.87-88
Odyssey (Honda), leaking power steering pump (1995-96), Jul.74
P-truck (Chevrolet/GMC)
4.3-liter, no upshift/stuck in 2nd (1994-96), Oct.30
4.5-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, no upshift/stuck in 2nd (1994-96), Oct.30
6.5-liter diesel, driveability problems (1994-96), Jul.66-67
6.5-liter, no upshift/stuck in 2nd (1994-96), Oct.30
6.5-liter, stumble, stall, hard start (1996-97), Jan.40
7.4-liter, no upshift/stuck in 2nd (1994-96), Oct.30
Park Avenue (Buick), noise on acceleration or driving uphill (1995-96), Jan.44
Paseo (Toyota), replacing front axle hub nuts (1992-98), Oct.37
Passat (Volkswagen)
brake pad warning (1995 and newer), Nov.77
noisy A/C expansion valve (1993), Jun.70
Passport (Honda)
4WD light always on (1996-97), Feb.84
front window bind (1994-97), Jan.46
Prelude (Honda), fifth-gear grind (1992-97), Mar.83
Probe (Ford)
driveability problems (1993-96), Sep.86-87
petroleum-based brake grease outlawed (1989-96), Jan.44
stiff steering after power steering gear replacement, Feb.84, 86
Q45 (Infiniti), poor A/C performance (1990-94), Jun.61-62
Quest (Nissan)
fuel odor (1993-95), Jan.46
hard starting/driveability problems

1999 Motor Magazine Index

(1993-96), Sep.86
QX4 (Infiniti)
soft brake pedal (1997), Jan.41
special limited slip differential oil (1997), Jul.69
tips for towing, Oct.30-31
Ram (Dodge)
3.9-liter, engine surge on the road (1994-95), Apr.58, 60
5.2-liter, engine surge on the road (1994-95), Apr.58, 60
5.8-liter, engine surge on the road (1994-95), Apr.58, 60
5.9-liter, revised diesel timing (1996), Jul.66
8.0-liter, engine bay moan (1994-97), Sep.91
brake pedal squawk (1995-96), Jan.47
bucking at wide open throttle (1996-98), Dec.58-59
clunking noise up front (1995-97), Aug.62
exhaust drone at idle (1994-95), Aug.57
fuel odor/dripping (1994-97), Nov.75
MIL on, emissions DTC set(1994-97), May.63, 65
mode lever moves to Defrost on acceleration (1994-96), Apr.62
PCM precaution (1996-98), Sep.93
ringing noise during light acceleration in 4th gear (1994-95), Jul.74
timing adjustment for light spark knock (1996-97), Nov.76
Range Rover (Land Rover)
3.9-liter, engine oil fill level (up to 1995), Jul.68
unstable idle (1993), Jun.62-63
Ranger (Ford)
flashing O/D light (1998), Nov.74
MIL on/DTC P1405 (1996), Oct.32
petroleum-based brake grease outlawed (1983-96), Jan.44
RAV4 (Toyota)
new MAP sensor hose (1998), Nov.75
replacing front axle hub nuts (1996-98), Oct.37
Regal (Buick), noise on acceleration or driving uphill (1996), Jan.44
Reumech A-Wagon, 6.5-liter, stumble, stall, hard start (1996-97), Jan.40
Riviera (Buick)
noise on acceleration or driving uphill (1995-96), Jan.44
worn hydraulic engine mounts (1986), May.71
Roadmaster (Buick)
4.3-liter, stalls, fuel starvation (1994-95), Mar.82
5.7-liter, stalls, fuel starvation (1994-95), Mar.82
Rodeo (Isuzu)
3.2-liter, false transmission DTCs (1995), Jan.40-41
3.2-liter, SOHC valve lifter service (1997), Jul.71
3.2-liter, spark plug tube replacement (1993-97), Oct.31
RT/10 Roadster (Dodge), lack of power (1997), Oct.30
S/T-truck (Chevrolet/GMC)
4.3-liter, low power, hesitation and stalling, DTCs (1997), Jul.68
4.3-liter, surge/knock/rough idle/stall/DTC406 (1995), Sep.84-85
4.5-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.0-liter, CSFI poppet cleaning solvent (1996), Dec.58
5.7-liter, CSFI poppet cleaning solvent (1996), Dec.58
clutch chatter (1982-83), Jul.74
false HVAC DTC (1998), Sep.94
no upshift, intermittent DTCs (1995-96), Aug.59, 61
S4 (Audi), HVAC maintenance update (1992 newer), Jun.66-67
S6 (Audi), HVAC maintenance update (1992 newer), Jun.66-67
S70 (Volvo), evap DTCs EFI-611/EFI-612 (1998 and newer), Nov.75
S420 (Mercedes Benz), 4.2-liter, MAF, O2 sensor codes (up to 1995), Jul.68-69
Sable (Mercury)
3.0-liter, stall/surge at speed (1996), Oct.30
clicking in reverse (1994-96), Apr.60
petroleum-based brake grease outlawed (1986-96), Jan.44
rocker arm noise (1989-95), Nov.77
Safari (GMC), false ABS code 65 (1991), Sep.95
Saturn, stalls when stopping (1991-95), Jul.69-70
SC400 (Lexus), EVAP system diagnosis (1996-98), Jul.70-71
Scoupe (Hyundai), harsh 4-3 downshift (1991-92), Jun.64, 66
Sebring (Chrysler)
2.0-liter, engine ticking noise, EGR fault (1995), Jul.70
2.0-liter, MIL on with hex code $3A (1995-97), Sep.84
A/C odor/poor defroster (1995-97), Sep.89
ABS diagnostic trouble codes (1998), Oct.36-37
Cruise Control-The Inside Story (1993-95), Mar.84-85
ripped air filter (1996), Jun.60
Sentra (Nissan), cranks but won't start (1991 on), Feb.87-88
Seville (Cadillac)
4.6-liter, cranks but won't start (1994-95), May.70-71
4.6-liter, DTC P039 sets after cold start (1993-95), Nov.75
4.6-liter, PCM calibration enhancements (1997), Nov.76-77
4.9-liter, cranks but won't start (1994-95), May.70-71
Shadow (Dodge)
2.2-liter, cold-idle roughness (1992-93), Sep.94-95
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-94), Mar.84-85
intermittent rough idle (1991-94), Jun.67
Shure Manufacturing Corp., Transaction/Service Cabinet, Dec.62
Sidekick (Suzuki), IAC duty cycle adjustment (1996-98), Nov.75
Silhouette (Oldsmobile)
false DTC P0121 (1997), Nov.74-75
fuel level sensor replacement (1997-98), Oct.36
intermittent electrical glitches (1992-95), Sep.91
worn hydraulic engine mounts (1990-92), May.71
Skylark (Buick)
2.3-liter, poor heat (1992-93), Sep.86
ABS light on, DTCs 21 & 22 (1995), Aug.57
coated pistons (1996 and newer), Jan.44, 46
ETS OFF light stays on, hot soak rpm sag, scan tool communication corrupted (1995), Jun.60
false DTC P0121 (1997), Nov.74-75
tricky ABS codes (1993-95), Jul.70
worn hydraulic engine mounts (1985), May.71
Sonata (Hyundai)
2.0-liter, harsh 4-3 downshift (1990-96), Jun.64, 66
3.0-liter, harsh 4-3 downshift (1990-96), Jun.64, 66
Spirit (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-95), Jun.67
Sport/Ute (Chevrolet/GMC)
4.3-liter, low power, hesitation and stalling, DTCs (1997), Jul.68
false HVAC DTC (1998), Sep.94
Stealth (Dodge)
3.0-liter, false MIL, false DTC (1996), Jun.68
delayed shifting when cold (1991-94), Feb.84
new connector lock (1994-95), Mar.83-84
Stratus (Dodge)
A/C odor/poor defroster (1995-97), Sep.89
Cruise Control-The Inside Story (1995), Mar.84-85
no A/C (1995), Nov.77
noisy steering (1995-96), Jan.46-47
ripped air filter (1995-96), Jun.60
water in fuel fill door (1995), Nov.74
Summit (Eagle)
delayed shifting when cold (1991-94), Feb.84
new connector lock (1994-95), Mar.83-84
Sunbird (Pontiac), tricky ABS codes (1993-94), Jul.70
Sundance (Plymouth)
2.2-liter, cold-idle roughness (1992-93), Sep.94-95
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-94), Mar.84-85
intermittent rough idle (1991-94), Jun.67
Sunfire (Pontiac)
2.4-liter, intermittent MIL, DTC P0107 (1996), Jun.64
rear thumping noise (1995-97), May.63
tricky ABS codes (1995), Jul.70
SVX (Subaru), rear wheel bearing service precaution (up to 1995), Jan.46
Talon (Eagle)
2.0-liter, engine ticking noise, EGR fault (1995), Jul.70
2.0-liter, MIL on with hex code $3A (1995-97), Sep.84
2.0-liter, timing belt replacement advice (1990-92), May.62
ABS diagnostic trouble codes (1998), Oct.36-37
ABS light on (1998), Jul.66
delayed shifting when cold (1995), Feb.84
leaky windshield wipers (1995), Sep.85-86
Taurus (Ford)
3.0-liter, stall/surge at speed (1996), Oct.30
3.4-liter, decel/accel stall with DTCs (1996-97), Sep.93-94
clicking in reverse (1994-96), Apr.60
petroleum-based brake grease outlawed (1986-96), Jan.44
rocker arm noise (1989-95), Nov.77
Tempo (Ford), petroleum-based brake grease outlawed (1984-94), Jan.44
Tercel (Toyota), replacing front axle hub nuts (1992-98), Oct.37
Thunderbird (Ford)
4.6-liter, lit MIL, water in MAF sensor (1996), Jul.66
missing low-side A/C service ports (1986, 1989), Oct.35-36
petroleum-based brake grease outlawed (1984-96), Jan.44
rocker arm noise (1989-96), Nov.77
Topaz (Mercury), petroleum-based brake grease outlawed (1984-94), Jan.44
Town & Country (Chrysler)
Cruise Control-The Inside Story (1993-96), Mar.84-85
front suspension noise (1994-95), Jul.68
intermittent rough idle (1991-95), Jun.67
missing, stalling, gear hunting (1996), May.66
Town Car (Lincoln)
petroleum-based brake grease outlawed (1986-96), Jan.44
rough idle, delayed shifting (1996), Feb.84
rough idle, stall after cold soak (1995), Sep.84
Tracer (Mercury)
2.0-liter, bad EGR hose routing (1997), Feb.82
petroleum-based brake grease outlawed (1987-89, 1991-96), Jan.44
Trans Sport (Pontiac)
false DTC P0121 (1997), Nov.74-75
fuel level sensor replacement (1997-98), Oct.36
intermittent electrical glitches (1992-95), Sep.91
worn hydraulic engine mounts (1990-92), May.71
Trooper (Isuzu)
3.2-liter, false transmission DTCs (1995), Jan.40-41
3.2-liter, SOHC valve lifter service (1997), Jul.71
3.2-liter, spark plug tube replacement (1992-97), Oct.31
prop shaft vibes (all), May.71
vehicles with ABS, brake drum/shoe clearances, Jun.64
vehicles with R-134a, dealing with metric switch ports, Apr.62
Venture (Chevrolet)
false DTC P0121 (1997), Nov.74-75
fuel level sensor replacement (1997-98), Oct.36
Villager (Mercury), petroleum-based brake grease outlawed (1993-96), Jan.44
Viper (Dodge), lack of power (1996-97), Oct.30
Vision (Eagle)
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
Volkswagen
car drifts to one side (1995), Feb.84
erratic, harsh or delayed upshifts (1995 and newer), Dec.60
erratic shifting, no DTCs (up to 1997), Aug.62
Voyager (Plymouth)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-96), Mar.84-85
front suspension noise (1994-95), Jul.68
intermittent rough idle (1991-95), Jun.67
missing, stalling, gear hunting (1996), May.66
Windstar (Ford)
petroleum-based brake grease outlawed (1995-96), Jan.44
rocker arm noise (1995-96), Nov.77
Wrangler (Jeep)
fuel sender recall (1997), Sep.87
PCM precaution (1997-98), Sep.93
XJ6 (Jaguar)
4.0-liter, harsh upshifts with light acceleration (1992-93), Mar.86
new-style cooling system clamps (1994 and newer), Sep.89
XJ12 (Jaguar), new-style cooling system clamps (1994 and newer), Sep.89
XJS (Jaguar)
4.0-liter, harsh upshifts with light acceleration (1992), Mar.86
new-style cooling system clamps (1994 and newer), Sep.89
Service Technicians Society (STS), new president installed, Apr.53
Seville (Cadillac)
4.6-liter
cranks but won't start (1994-95), May.70-71
DTC P039 sets after cold start (1993-95), Nov.75
PCM calibration enhancements (1997), Nov.76-77
4.9-liter, cranks but won't start (1994-95), May.70-71
Shadow (Dodge)
2.2-liter, cold-idle roughness (1992-93), Sep.94-95
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-94), Mar.84-85
intermittent rough idle (1991-94), Jun.67
Shop management
All Star Spring Seminars, Jan.49, Dec.61
Automotive Leadership Institution (ALI), Shop Management Service Supremacy College courses, Dec.61
Automotive Management Institute (AMI)
All Star Spring Seminars, Jan.49, Dec.61
Course Catalog, Jan.49
Autotracker, shop management software, Oct.B34
Business Sense
employee evaluations, Mar.71-72
employee guidance and discipline,

Jun.49-52
incentive compensation, Aug.45-48
key points to shop management, Dec.49-52
setting goals, Mar.72
technician training, Mar.70-71
CARS, Shop Management Tools for Success, Jan.55, Feb.92, Mar.95, Apr.74, Jun.79, Dec.64
controlling work-related stress, Jun.6-8
Federal Trade Commission, avoiding Internet service scams, Sep.80-81
MOTOR Publishing, Shop Management Tools for Success, Oct.B39
OE Scheduled Maintenance Handbook, Feb.6
Retirement Options for Shop Personnel, Jun.44-45
shop layout, Dec.50
Shop Management Service Supremacy College courses, Dec.61
Shure Manufacturing Corp.
Custom Series workbenches, May.75, Jun.76, Nov.66-67
Model 030465 fluid containment bench, Nov.66
Transaction/Service Cabinet, Dec.62
Sidekick (Suzuki), IAC duty cycle adjustment (1996-98), Nov.75
Sierra (GMC)
knocking out upper control arm slugs (1989-98), Jun.24
new direct-injection diesel engine, Aug.52
redesigned front suspension (1999), Jun.24
Silhouette (Oldsmobile)
false DTC P0121 (1997), Nov.74-75
fuel level sensor replacement (1997-98), Oct.36
intermittent electrical glitches (1992-95), Sep.91
worn hydraulic engine mounts (1990-92), May.71
Silverado (Chevrolet)
knocking out upper control arm slugs (1989-98), Jun.24
new direct-injection diesel engine, Aug.52
redesigned front suspension (1999), Jun.24
SK Hand Tool, impact swivel adapters, Feb.89
Skye, Superskye refrigerant machine, Apr.32
Skylark (Buick)
2.3-liter, poor heat (1992-93), Sep.86
ABS light on, DTCs 21 & 22 (1995), Aug.57
coated pistons (1996 and newer), Jan.44, 46
ETS OFF light stays on, hot soak rpm sag, scan tool communication corrupted (1995), Jun.60
false DTC P0121 (1997), Nov.74-75
tricky ABS codes (1993-95), Jul.70
worn hydraulic engine mounts (1985), May.71
Small Business Administration, avoiding Internet service scams, Sep.80-81
Snap-On Diagnostics
Fast-Track ABS Troubleshooter MT25002798 scan tool, Nov.56
MT2400 Vantage graphing DMM and diagnostic database, Jan.55, Feb.92, Apr.73, Jun.76, Aug.66, Sep.100, Oct.B37, Nov.58
ScanLines, free newsletter, Mar.89, Apr.74, May.79, Jun.76, Jul.79, Aug.66, Sep.100, Oct.B37, Nov.82
Snap-On Tools
CD-based catalog, Apr.66
EEGB300A heavy-duty battery charger, Jan.50
EEWH300A tire changer, Sep.98
FAR720 air ratchet, Apr.67
infrared thermometers, May.79
RTEMP500 infrared thermometers, Jul.79
Society of Automotive Engineers (SAE)
annual convention report, May.16-17, Jun.19
development of new 42-volt electrical system, Jan.16-17
ECOCAR 2000 design competition, Apr.53
Software
see also Computers; Internet; World Wide Web
Autotracker, shop management software, Oct.B34
Micro Processor Systems, Inc. (MPSI), ProLink 9000 OBDII software for Big, 3, Nov.56
Mitchell Repair Information, Mitchell on Demand software pirated, Nov.71
tracking scheduled maintenance intervals, Feb.33
using tracking software and websites to schedule maintenance, Feb.33
Solenoids, explained, Sep.24, 26-27
Sonata (Hyundai)
2.0-liter, harsh 4-3 downshift (1990-96), Jun.64, 66
3.0-liter, harsh 4-3 downshift (1990-96), Jun.64, 66
1999 model reviewed, Jan.32
SP Tools, universal hose pliers, Jan.52, Feb.92, Mar.95, May.79, Jun.76, 763, Jul.79, Aug.66, Sep.100, Nov.85, Dec.63
Specialty Products, EZ Arms XR replacement upper control arms, Nov.65
Spectrum Composites
Service Express 24 ATM For Keys, Feb.89, May.76, Jun.76, Sep.37
website address, May.76
Speed-Pro, High Performance Engine Building and Blueprinting School, Apr.66
Spicer, professional grade chassis products, Oct.B38
Spirit (Dodge)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-95), Mar.84-85
intermittent rough idle (1991-95), Jun.67
Sport/Ute (Chevrolet/GMC)
4.3-liter, low power, hesitation and stalling, DTCs (1997), Jul.68
false HVAC DTC (1998), Sep.94
SPX, OTC Div.
Ford tool catalog, Oct.B38
Model 3155 Accuracy Plus starting/charging system tester, Nov.58
No.6070 StrutTamer, Nov.66
No.7939 Ford vacuum front hub release tool set, Nov.66
SPX-Dealer Services, GSP9700 wheel balancer, Nov.65-69
SPX-Robinair, Model 16600 Electronic Leak Detector, Nov.59
Standard Motor Products
hotline, Oct.B38
website address, Oct.B38
Stant
caps, thermostats, gaskets & seals catalog, Dec.61
radiator/fuel/oil filler cap catalog, Dec.61
Stanza (Nissan), 2.4-liter, rapping, rattling, knocking sound from inside timing cover (1990-94), Mar.18, 20-21
Starters see Battery, starter & charging systems
Stealth (Dodge)
3.0-liter, false MIL, false DTC (1996), Jun.68
delayed shifting when cold (1991-94), Feb.84
new connector lock (1994-95), Mar.83-84
Steering and suspension systems
Doing it Right
steering inspection tips, Jun.33
Steering and Suspension Inspection checklist, Jun.35-36
suspension inspection tips, Jun.33-34
tires and wheels inspection tips, Jun.34
using the checklist, Jun.34
OE Scheduled Maintenance Tech Tips
ball joints and steering linkage, Feb.69
CV joints and boots, Feb.51
steering system inspection and lubrication, Feb.68-69
system inspection and lubrication, Feb.68-69
Storm (Geo), CS-series alternator troubles (1990), Jun.16-17
Stratus (Dodge)
A/C odor/poor defroster (1995-97), Sep.89
Cruise Control-The Inside Story (1995), Mar.84-85
no A/C (1995), Nov.77
noisy steering (1995-96), Jan.46-47
ripped air filter (1995-96), Jun.60
water in fuel fill door (1995), Nov.74
STS see Service Technicians Society (STS)
STS
C/D Solc RE Cleaner/Degreaser, May.74
Contact Cleaner NF, Jun.72
Subaru
see also specific models
Beck/Arnley Worldparts (BWC), TTY headbolts available, Mar.88
Suburban (Chevrolet), knocking out upper control arm slugs (1989-98), Jun.24
Summit (Eagle)
delayed shifting when cold (1991-94), Feb.84
new connector lock (1994-95), Mar.83-84
Sunbird (Pontiac), tricky ABS codes (1993-94), Jul.70
Sundance (Plymouth)
2.2-liter, cold-idle roughness (1992-93), Sep.94-95
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-94), Mar.84-85
intermittent rough idle (1991-94), Jun.67
Sunfire (Pontiac)
2.4-liter, intermittent MIL, DTC P0107 (1996), Jun.64
rear thumping noise (1995-97), May.63
tricky ABS codes (1995), Jul.70
Sunnen Products
Automotive Machinists Academy, Jun.71
celebrates 75th anniversary, Oct.40
website address, Jun.71, Oct.40
SVX (Subaru), rear wheel bearing service precaution (up to 1995), Jan.46
System Guard
anti-tampering device, Jun.76, Jul.78, Oct.B38
website address, Oct.B38
SystemOne Technologies, Model 500 parts washer, Aug.64
Systems
see also specific systems
inspections, Feb.70-71
understanding basic system technology, Jan.2

T

Talon (Eagle)
2.0-liter
engine ticking noise, EGR fault (1995), Jul.70
MIL on with hex code $3A (1995-97), Sep.84
timing belt replacement advice (1990-92), May.62
ABS diagnostic trouble codes (1998), Oct.36-37
ABS light on (1998), Jul.66
delayed shifting when cold (1995), Feb.84
leaky windshield wipers (1995), Sep.85-86
tap extensions, May.79
Target Training
General Motors engine control systems on CD-ROM, Feb.91
QuickSpec CD-ROMs, Oct.B38
Taurus (Ford)
3.0-liter
billowing exhaust (1994), Apr.10, 12-13
intermittent die-out (1996), Oct.12, 14-15
power loss when A/C is turned on, Feb.14, 16, 19
stall/surge at speed (1996), Oct.30
testing speed-density system (1999), Feb.24, 26-27
3.4-liter, decel/accel stall with DTCs (1996-97), Sep.93-94
camber adjustment (1986-95), Jun.25-26
clicking in reverse (1994-96), Apr.60
petroleum-based brake grease outlawed (1986-96), Jan.44
rocker arm noise (1989-95), Nov.77
safety features on 2000 model, Jun.56, 56-57
Tech Preview, 2000, Sep.50, 52
Tempo (Ford), petroleum-based brake grease outlawed (1984-94), Jan.44
Tenneco Automotive, Expert Plus marketing program, Sep.96
Tercel (Toyota), replacing front axle hub nuts (1992-98), Oct.37
The Engine Connection
remanufactured automatic transmission catalog, Aug.63
Remanufactured Engines & Cylinder Heads catalog, Apr.66
The Smoke Machine, website address, Nov.81
Thexton Manufacturing
Coil-On-Plug Spark Tester, Jan.50
Fast-Spec electronic information system, Apr.67, Sep.43, Nov.60
Thunderbird (Ford)
4.6-liter, lit MIL, water in MAF sensor (1996), Jul.66
missing low-side A/C service ports (1986, 1989), Oct.35-36
new model previewed, Feb.78
petroleum-based brake grease outlawed (1984-96), Jan.44
rocker arm noise (1989-96), Nov.77
TIF Instruments
Smooth Sailing With TIF Sweepstakes, Feb.90
TIF5GA five gas analyzer, Oct.B38
TIF280 multifunction multimeter, May.74
Timing belts
OE Scheduled Maintenance Tech Tips, Feb.61
Timing is Everything, service tips, Aug.34-37
Timken Peformance, bearings, Oct.B38
Tires, Sidewall Torsion Sensor System, Jul.14, 16, 18
Tomco, dual language counter mat, Aug.63
Tool Source, website address, Jun.71
Toolbox Electronics
handheld scan tool, Jun.75
website address, Jun.75
Tools for Education, Smoghouse A.T.A.C. training software, Sep.44
Tools and Equipment
see also Literature; Parts, Accessories and Supplies; Tools of the Trade; Top Twenty Tools
Accu Industries
Model 5400 high performance tire changer, Nov.62
Model 5402 high performance tire changer, Nov.62
Model 6000 wheel balancer, Oct.B33, Nov.62-63
Actron Manufacturing, OBDII scan tool, Oct.B33
Airsept, Inc., overflow tube hole drill, Nov.81
Alden Corporation, Drill-Out power extractor, Oct.B33
AlliedSignal, Inc., Genetron 134a refrigerant, Oct.B34
American Tool
Chesco ball end hex keys, Aug.65
Chesco fold-up hex tool sets, Dec.63
Hanson screw extractor, Nov.81
RECORD vices, bolt cutters, clamps and pipe tools, Sep.99
Auto Meter Products, BusPro-600 multiple battery charger, Mar.89, May.79, Aug.66
B & B Electronics Manufacturing, AutoTap OBDII data link cable, Nov.54
Benwil Industries, MR-6 compact portable lift, Nov.66
Blue Streak Electronics
BDM Pro 3-in-1 scan tool, Nov.54
three-in-one diagnostic scan tool, Oct.B34

1999 Motor Magazine Index

Champion Engineering
Advantage series compressors, Apr.74, Jul.78, Aug.65
Rotorchamp 5-7.5 HP rotary compressors, Nov.81
The Smoke Machine leak detector, May.76, Jul.79, Nov.81
Chicago Pneumatic
CP-749 Super Duty impact wrench, Nov.63
CP-826 Heavy Duty air ratchet, Nov.63-64
Christie Automotive Products, PDQ battery charger, Nov.54
Clayton Ind., Virtual Test Track dynamometer, Oct.B35
Clean Burn, used-oil fired furnaces, Oct.B35
EASE Diagnostics, 4- and 5-gas analyzers, Nov.54
ESP, Systemone emission inspection station, Oct.B35
Ferret Instruments, GasLink gas analyzer, Nov.54-55
Fluke Corp., 98 Series II Auto Scopemeter, Jan.52, Apr.74, Aug.66
Gates, cooling system clamp, Nov.81
Gray Automotive, environmental parts washer, Oct.B35
Hennessy Industries, Coats Model 1050 wheel balancer, Nov.64
Hunter Engineering, Series 611 wheel alignment system, Nov.64
Injectoclean, CJ20 injector tester, Nov.55
Innova Electronics, Model 5568 digital timing light, Nov.55
Interro Systems
ODA PC-Link full function engine analyzer, Nov.55
PST 500 Personal Scan Tool, Feb.91, Apr.74, Jun.79, Aug.66, Oct.B36, Dec.64
K-Line, Auto TUff AT3738 evaporative emissions system tester, Nov.55
Kent-Moore Div., SPX
J-38792 Electronic Vibration Analyzer, Nov.58-59
J-42598 Vehicle Data Recorder, Nov.58
Tool Kit J-38751 terminals for Nissan and Infiniti sensors, Jan.14, Feb.20
Lenan Corp.
Lenair waste-oil heaters, Sep.100, Nov.85, Oct.B36, Dec.63
Mac Tools, AR250 Seal-Head air ratchet, Nov.55
Matco Tool
Pro-Swing ratcheting head wrench, Nov.55-56
Special Forces Ratchet and Socket System, Nov.56
Midtronics
completion of GM essential tool program for Micro410 Battery Tester, Jan.48
PDF-40 portable multimeter, Oct.B36
MityVac/Prism, HIS Shooter injection system shooter, Aug.65, Dec.63
Mopar Parts Division, fuel pumps meet OE specs, May.76
MotorVac Technologies
CoolantClean coolant exchange system, Nov.56
Transtech ATF exchanger, Apr.74
Transtech II ATF exchanger, Jul.78
MPSI, ProLink 9000 OBDII software for Big, 3, Nov.56
Mustang Dynomometer, MD-1750 dynamometer, Nov.56
Pro Spot, PR-10 Resistance Spot Welding System, Nov.68
Pro-Cut International
PFM 900 SmartLathe, Oct.B37, Nov.64-65
TorqStiks, Nov.65
Raybestos Brakes, H2O detector brake fluid test strips, Oct.B37
Raytek Corp.
MiniTemp pocket infrared thermometer, Aug.65, Sep.100, Nov.82, Dec.63
MX series non-contact thermometers, Jan.55, Jun.79
Robinair Div., SPX, Cool-Tech I.D. refrigerant identifier, Nov.59-60
Rotary Lift, SPOA9 asymmetrical surface lift, Nov.66
RTI Technologies
RHS780 Refrigerant Handling System, Apr.73, Jun.79
TC2670E Refrigerant Handling System, May.76
Shure Manufacturing Corp.
Custom Series Workbenches, Jun.76, Nov.66-67
Model 030465 fluid containment bench, Nov.66
Snap-On Diagnostics
Fast-Track ABS Troubleshooter MT25002798 scan tool, Nov.56
MT2400 Vantage graphing DMM and diagnostic database, Jan.55, Feb.92, Apr.73, May.79, Jun.76, Jul.79, Aug.66, Sep.100, Oct.B37, Nov.58, 82
Snap-On Tools, RTEMP500 infrared thermometers, May.79, Jul.79
SP Tools, universal hose pliers, Jan.52, Feb.92, Mar.95, May.79, Jun.76, 763, Jul.79, Aug.66, Sep.100, Nov.85, Dec.63
Specialty Products, EZ Arms XR replacement upper control arms, Nov.65
Spectrum Composites, Service Express 24 key dispensing terminal, May.76, Jun.76
SPX, OTC Div.
Model 3155 Accuracy Plus starting/charging system tester, Nov.58
No.6070 StrutTamer, Nov.66
No.7939 Ford vacuum front hub release tool set, Nov.66
SPX-Dealer Services, GSP9700 wheel balancer, Nov.65-69
SPX-Robinair, Model 16600 Electronic Leak Detector, Nov.59
System Guard
anti-tampering device, Jun.76, Jul.78, Oct.B38
Thexton Manufacturing, Fast-Spec hand-held database, Nov.60
TIF Industries, Inc., TIF5GA five gas analyzer, Oct.B38
Toolbox Electronics, handheld scan tool, Jun.75
Tracer Products
12-volt UV leak detector, Jan.4
Tracerline EZ/TITAN 50, A/C and fluid leak detection kit, May.76
Tracerline EZ/TITAN 100, A/C and fluid leak detection kit, May.76
Tracerline fluorescent leak detection system, Oct.B39
Truecraft Tools, new size standard for ratchets and sockets, Feb.92
UEI
ACM 6100 DC clamp-on adapter, Jan.52
ADM 4200 diagnostic multimeter, Jan.52
ADM 5200 diagnotic multimeter, Jan.52
AGA 3100 NOx analyzer, Jan.52
ATH 2300 digital thermometer and waveform cards for the ADL, 7100, Jan.52
Vetronix Corp.
MST5100 engine analyzer, Nov.60
PXA-1100 diagnostic emissions analyzer, Apr.73, May.30, 79, Jun.76, Oct.B39
Walton Company
tap extensions, May.79
tap extractors, Jan.52, Jul.79
White Industries, ATX3000 semiautomatic transmission fluid exchanger, 11-62, Nov.60
Wynn, induction system cleaning kit, Sep.99
Yokogawa Corporation of America
CA11 Voltage/Current Calibrator, May.76, Jul.78
GA500 Refrigerant Gas Analyzer, Apr.73, Aug.65
HP10A refrigerant leak detector, Mar.89, Jun.75, Sep.99, Oct.B39
lifetime guarantee on diagnostic tools, Jan.52, Feb.92
Tools of the Trade
see also Literature; Parts, Accessories and Supplies; Tools and Equipment; Top Twenty Tools
air conditioning
Castrol, A/C refrofit kits, Mar.87
Fluoro Tech
FT-4000 A/C service system, Mar.87
MAC2000 A/C service machine, Aug.64
batteries
Marquette, Quick Kick portable battery pack, Oct.43
Snap-On Tools, EEGB300A heavy-duty battery charger, Jan.50
brakes
Raybestos Brakes, Quiet Stop disc brake pads, Oct.43
Van Norman, V17 combo brake lathe, Dec.62
Wagner Brake Products, DOT 5.1 severe-duty brake fluid, Oct.43
Castrol, A/C retrofit kits, Mar.87
cleaners and washers
Auto Tech Industries, Engine Enhancer fuel and induction system cleaning machine, Jul.76
Gent-l-kleen Products, Power Wipes Formula 2 hand cleaner towels, Jun.72
STS, Contact Cleaner NF, Jun.72
SystemOne Technologies, Model 500 parts washer, Aug.64
Valvoline, SynPower Carb, Choke and Throttle Body Cleaner, May.75
compressors, Lincoln Automotive, Eagle Series 91 air compressors, Feb.89
creepers, Mac Tools, The Rider wide-body creeper, Dec.62
diagnostics
Automotive Electronics Services, test lead cable wraps, Sep.98
Blue Streak Electronics, BDM Pro hand held diagnostic tool, Jul.76
Champion Engineering, Smoke Machine leak detector, Jul.76
Corrosion Consultants, Exact-Dose, A/C dye injector, Apr.67
Enerpac Automotive Products, Tru-Spark ignition firing indicator, Nov.80
NSG Precision Cells, QR-70B hand-held digital refractometer, Aug.64
OTC, Perception scope accessories, Mar.87
S7G Tool Aid, Computer Safe Logic Probe, Nov.80
Santronics, Short Finder diagnostic tool, Sep.98
Thexton Manufacturing
Coil-On-Plug Spark Tester, Jan.50
Fast-Spec hand held electronic database, Apr.67
TIF Instruments, TIF280 multifunction multimeter, May.74
Tracer Products
TP-8100 compact 12-volt leak detection lamp, Mar.87
Tracerline EZ/Titan 50 leak detector, Sep.98
fuel
BWD Automotive, new fuel injector line, May.74
Justice Brothers, diesel fuel treatment, Nov.80
Pyroil Performance Products, Diesel Fuel Treatment, Jan.50
gaskets
Federal-Mogul, problem-solving head gasket, Aug.64
Victor Reinz, new design Honda head gasket, Feb.89
grinders, Van Norman, FG4000 heavy-duty flywheel/clutch grinder, Jan.50
hand tools
Lincoln Automotive, Power Luber cordless grease gun, Apr.67
Mityvac, power steering bleeder, Jun.72
Rethreader Tool, spark plug rethreader, Jul.76
Safe Shop Tools, Versa-Vac cooling system service tool, May.74
SK Hand Tool, impact swivel adapters, Feb.89
Snap-On Tools, FAR720 air ratchet, Apr.67
jacks and lifts
Lincoln Automotive, Guardian line of jacks, May.74
Mohawk Resources, MTL-9 above ground lift, Aug.64
keys, Spectrum Composites, Service Express 24 automated service terminal, Feb.89
lubricants, solvents and sealants
Kano Laboratories, Exrust rust remover, Mar.87
Lincoln Automotive, Model 3633 waste oil drum, Jan.50
Mobil Oil, Tri-Synthetic oil, Jul.76
STS, C/D Solc RE Cleaner/Degreaser, May.74
manifolds, Dorman, Manifolds Plus replacement exhaust manifold kits, Nov.80
nuts and bolts, ATP, transmission pan bolts, Oct.42
pumps, Lincoln Automotive, Hammerhead spigot pump, Oct.43
screens, BWD Automotive, Ford PCV valve screen, Oct.43
seals, ATP, A-100 tranny seal kit, Feb.89
spark plugs
Autolite, Pro-Fit spark plug wires, Nov.80
Champion, Platinum Power spark plugs, Nov.80
Robert Bosch, Platinum+4 spark plugs, May.74
suspension
Federal-Mogul, heavy duty sway bar link kits, Jun.72
OTC, StrutTamer MacPherson strut spring compressor, Dec.62
thermometers
Raytek Corp., MiniTemp pocket infrared thermometer, Sep.98
Yokogawa Corporation of America
Model 530 01 noncontact thermometers, Mar.87
Model 530 03 noncontact thermometers, Mar.87
Model 530 04 noncontact thermometers, Mar.87
training
Aspire, Inc.
home-study training program, Apr.67
Lab Scope Training Program, May.74
transmissions, ATP, universal drain plug kit, Jun.72
wheels and tires
Bend-Pak, X-Rack alignment rack, Jan.50
Hunter Engineering, TC3500 tire changer, Jun.72
Snap-On Tools, EEWH300A tire changer, Sep.98
work stations, Shure Manufacturing Corp., Custom Series workbenches, May.75
Top Twenty Tools
AirSept, radiator overflow tube repair kit, Sep.32
Baum Tools, CS2000 live data scanner, Sep.30-31
Casey Tool & Machine, CTM-1 parts washer, Sep.37-38
Chart Industries, Twinn-Lift, Sep.37
correction, Dec.74
EASE Diagnostics, PCM service programming system, Sep.30-31
G & L Marketing, System Guard tamper evident A/C sleeves, Sep.40
Kent-Moore, fuel tank siphoning hose, Sep.41-43
Lincoln Automotive, Power-luber Cordless Grease Gun, Sep.30
Lisle, adjustable spark plug boot puller, Sep.40
Matco Tools, Pro-Swing ratcheting wrench, Sep.39-40
Midtronics, PowerSensor Micro 400 Digital Battery Analyzer, Sep.32
OTC, StrutTamer MacPherson strut spring compressor, Sep.35
Phoenix Systems, Power-Ject vacuum/pressure bleeder, Sep.31
Rethreader Tool, spark plug hole rethreader, Sep.38
Schley Products, harmonic damper pulley puller, Sep.32-33
Spectrum Composites, Service Express 24 ATM For Keys, Sep.37
Thexton Manufacturing, Fast-Spec electronic information system, Sep.43

1999 Motor Magazine Index

Tools for Education, Smoghouse A.T.A.C. training software, Sep.44
Tracer Products, Tracerline Titan TP-8100 leak detection lamp, Sep.38-39
Vetronix Corp., Asian ScanTest Software, Sep.43-44
Topaz (Mercury), petroleum-based brake grease outlawed (1984-94), Jan.44
Torque Convertors, Torque Converter Lockup, May.38-40, 42-43
Town & Country (Chrysler)
Cruise Control-The Inside Story (1993-96), Mar.84-85
front suspension noise (1994-95), Jul.68
intermittent rough idle (1991-95), Jun.67
missing, stalling, gear hunting (1996), May.66
Town Car (Lincoln)
petroleum-based brake grease outlawed (1986-96), Jan.44
rough idle, delayed shifting (1996), Feb.84
rough idle, stall after cold soak (1995), Sep.84
Toyota
Beck/Arnley Worldparts (BWC), TTY headbolts available, Mar.88
diagnosing knock sensors, oxygen sensors and IAC systems, Dec.12, 16
new refrigerant line fitting, Apr.32
shorted wiring in trucks (1989-94), Nov.20-21
STAR remanufactured parts and customer service available, Nov.78
Star Service News, free subscription, Feb.91, Mar.89, Apr.74, Jul.79, Aug.66, Sep.100, Oct.B39, Nov.85
Support To Aftermarket Repair (STAR) twice a day deliveries, Jun.71
Toyota Racing Development (TRD), NASCAR approval pending, Jan.33
Tracer (Mercury)
2.0-liter, bad EGR hose routing (1997), Feb.82
petroleum-based brake grease outlawed (1987-89, 1991-96), Jan.44
Tracer Products
12-volt UV leak detector, Jan.4
EZ/TITAN leak detection kit rebates, Mar.88
filter lens technology patent awarded, Sep.96
How to Turn Auto Leaks Into Super Profits guide, Nov.78
Pinpoint Every Leak!, Aug.63
TP-8100 compact 12-volt leak detection lamp, Mar.87
Tracerline EZ/TITAN 50, A/C and fluid leak detection kit, May.76, Sep.98
Tracerline EZ/TITAN 100, A/C and fluid leak detection kit, May.76
Tracerline fluorescent leak detection system, Oct.B39
Tracerline Titan TP-8100 leak detection lamp, Sep.38-39
Tracerline Titan TP-8100 leak detection products catalog, Jun.75
website address, Sep.96
Trade Secrets
Buick, no-start/stalling (1995), Nov.10, 12-13
Colt Vista (Dodge), 2.0-liter, frayed and slipping alternator belt, Jan.10, 12-13
communication with customer, Apr.10, 12-13
concentrating on the job, Oct.12, 14-15
Cressida (Toyota), A/C not cooling (1989), Jun.12, 1415
criticizing competitors, Jun.12, 14-15
dismissing dangerous employees, Sep.12, 15-16
documenting potential problems, Nov.10, 12-13
educating the customer, Aug.10, 12, 14
F-150 (Ford), 5-liter, piston meltdown (1990), Aug.6, 11
keeping an open mind to new technology.5.6, May.10-11
knowing your customers, Feb.14, 16, 19
providing accurate repair estimates, Jan.10, 12-13
Taurus (Ford)
3.0-liter, billowing exhaust (1994), Apr.10, 12-13
3.0-liter, intermittent die-out (1996), Oct.12, 14-15
3.0-liter, power loss when A/C is turned on, Feb.14, 16, 19
too good to be true, Dec.8, 10-11
Training
@All, automotive service center safety program, Sep.99
All Pro/Bumper to Bumper, two new safety programs, Apr.66
Aspire, Inc.
Advanced Suspension & Steering, Jan.48
Advanced Wheel Alignment, Jan.48
Basic Suspension & Steering, Jan.48
home-study training program, Apr.67
Lab Scope Training Program, May.74
Tire & Wheel Service, Jan.48
Wheel Alignment, Jan.48
Automotive Leadership Institution (ALI), Shop Management Service Supremacy College courses, Dec.61
Automotive Machinists Academy, Jun.71
Automotive Management Institute (AMI), All-Star Spring Seminars, Jan.49
Automotive Youth Educational Systems (AYES), Jan.19
availability of, Jan.30-31
emissions, Jan.29
Fel-Pro, High Performance Engine Building and Blueprinting School, Apr.66
future of, Jan.31
Jendham, Chrysler engine control systems program, Dec.61
Parts Plus, new training program, Jul.75
profitability of, Jan.31
Rema Tip Top, Mobile Training Units training dates announced, Oct.40
resources for, Jan.28-29
Rotary Lift, training program for lift safety, Jan.48
satellite video training, Jan.31
sources for, Aug.16, 18-19
Speed-Pro, High Performance Engine Building and Blueprinting School, Apr.66
Sunnen Products, Automotive Machinists Academy, Jun.71
Target Training
GM engine control systems on CD-ROM, Feb.91
QuickSpec CD-ROMs, Oct.B38
The Mandate for Tech Training, Jan.28-31
Trans Sport (Pontiac)
false DTC P0121 (1997), Nov.74-75
fuel level sensor replacement (1997-98), Oct.36
intermittent electrical glitches (1992-95), Sep.91
worn hydraulic engine mounts (1990-92), May.71
Transmission Rebuilders Network International
50,000th visitor recorded, Jun.71
website address, Jun.71
Transmissions
Motorist Assurance Program (MAP), Uniform Inspection & Communication Standards, May.73
OE Scheduled Maintenance Tech Tips, ATF, filter and differential, Feb.49
The Great ATF Escape, Apr.22-23, 24, 26
TRD see Toyota Racing Development (TRD)
TRICO, windshield wiper application guide, Sep.96
Trooper (Isuzu)
3.2-liter
false transmission DTCs (1995), Jan.40-41
SOHC valve lifter service (1997), Jul.71
spark plug tube replacement (1992-97), Oct.31
prop shaft vibes (all), May.71
Trouble Shooter
Acclaim (Plymouth), 2.5-liter, low power and lack of responsiveness (1992), Dec.6
Cavalier (Chevrolet), 3.1-liter, engine odor after routine oil change (1992), Jan.4
Celebrity (Chevrolet), 2.8-liter, recurrent oil leaks (1986), Mar.10, 12-13
Chevrolet, repeated head gasket failure (mid to late 1980s), Nov.4, 7
Civic (Honda), 1.5-liter, recall on camshaft job (1988), Oct.6, 10
controlling work-related stress, Jul.6-8
drivebelt noise in front-wheel-drive vehicles, Feb.10, 12-13
F-150 (Ford)
5.0-liter, lack of power, rough idle, engine ping (1990), Jun.6, 8
5.0-liter, poor idle quality after throttle body cleanup (1989), Aug.4, 7
piston meltdown (1990), Sep.6, 11
Grand Marquis (Mercury), ABS light comes on (1993), Jul.4
oxygenated fuel program first year results, Mar.6
speed-density (MAP sensor only), pros and cons, Dec.6
tracing leaks with UV lights, May.4
Y2K and automotive ECUs, Apr.4, 6
TruckingCareerNet, website address, Jul.75
Truecraft Tools, new size standard for ratchets and sockets, Feb.92
TT (Audi), 2000 Import Tech Roundup, Dec.22-24
TT Coupe (Audi), previewed, Feb.80
Tundra (Toyota), full-size pickup unveiled, Jun.55-56

U

U-Haul International, franchise opportunity, Jun.76, Sep.100, Nov.82
UEI
ACM 6100 DC clamp-on adapter, Jan.52
ADM 4200 diagnostic multimeter, Jan.52
ADM 5200 diagnotic multimeter, Jan.52
AGA 3100 NOx analyzer, Jan.52
ATH 2300 digital thermometer and waveform cards for the ADL, 7100, Jan.52
United States Council for Automotive Research, 1999 FutureCar Challange, Jul.56-58
United States Court of Appeals, new air standards blocked, Jul.58-59
United States Department of Commerce, 1999 FutureCar Challange, Jul.56-58
United States Department of Energy 1999 FutureCar Challange, Jul.56-58
FutureTruck 2000 launched, Dec.56-57

V

V V (Honda), previewed, Mar.80
Valves, OE Scheduled Maintenance Tech Tips, adjustments, Feb.59
Valvoline, SynPower Carb, Choke and Throttle Body Cleaner, May.75
Van Norman
FG4000 heavy-duty flywheel/clutch grinder, Jan.50
V17 combo brake lathe, Dec.62
VCM see Vehicle Control Modules (VCM)
Vehicle Control Modules (VCM), To Flash or Not to Flash, Nov.34-38
Venture (Chevrolet)
false DTC P0121 (1997), Nov.74-75
fuel level sensor replacement (1997-98), Oct.36
Vetronix Corp.
accessing the Internet from your car, Aug.50-51
Asian ScanTest Software, Sep.43-44
GM Service Programming System (SPS), Nov.36
MST5100 engine analyzer, Nov.60
PXA-1100 diagnostic emissions analyzer, Apr.73, May.30, 79, Jun.76, Oct.B39
Victor Reinz
Machinist of the Year competition, Mar.88
new design Honda head gasket, Feb.89
Villager (Mercury), petroleum-based brake grease outlawed (1993-96), Jan.44
Viper (Dodge), lack of power (1996-97), Oct.30
Vision (Eagle)
Cruise Control-The Inside Story (1993-95), Mar.84-85
no A/C (1993-95), Nov.77
Volkswagen
see also specific models
Beck/Arnley Worldparts (BWC), TTY headbolts available, Mar.88
car drifts to one side (1995), Feb.84
coolant type (1998 and later), Aug.28
engine manangement system diagnosis, Dec.46-47
erratic, harsh or delayed upshifts (1995 and newer), Dec.60
erratic shifting, no DTCs (up to 1997), Aug.62
Volvo Cars of North America, Inc.
see also specific models
coolant type, Aug.28
engine management system diagnosis, 46, Dec.44
Exchange Parts Program, Oct.B39
Exchange Parts Program additions, Oct.40
pricing realignment, Jul.78
website address, Oct.40
Voyager (Plymouth)
2.5-liter, cold-idle roughness (1992-93), Sep.94-95
Cruise Control-The Inside Story (1993-96), Mar.84-85
front suspension noise (1994-95), Jul.68
intermittent rough idle (1991-95), Jun.67

W

Wagner Brake Products, DOT 5.1 severe-duty brake fluid, Oct.43
Walton Company
tap extensions, May.79
tap extractors, Jan.52, Jul.79
website address, Jan.52
Warranties
2000 Domestic New Car and Truck Warranties wall chart, Sep.59-66
Imported New Vehicle Warranties, wall chart, Dec.33-40
Wells Manufacturing
Cabinet Program announced, Nov.78
diagnostic information on website, May.72
engine performance catalog and buyers guide, Jan.49
fuel injection parts catalog, Oct.40
Wire and Cable catalog, Jul.75
Wheel alignment, Beating the Wheel Alignment Blues, Jun.24-26, 28
White Industries
A/C equipment catalog, Jul.75
ATX3000 semiautomatic transmission fluid exchanger, 11-62, Nov.60
Windstar (Ford)
camber adjustment (1995 and later), Jun.25-26
petroleum-based brake grease outlawed (1995-96), Jan.44
rocker arm noise (1995-96), Nov.77
Wise Industries, website launched, Aug.63
Wix Filters
60th anniversary, Jun.71
free metal filter storage cabinet, Dec.61
Joe Gibbs spokeman, May.72
oil and filter sales promotion, Nov.78
World Wide Web
see also Computers; Internet: Software
Federal Trade Commission, avoiding Internet service scams, Sep.80-81
using tracking software and websites to schedule maintenance, Feb.33
website address
ACDelco, Jan.52, May.72
Air Lift Company, Aug.63

1999 Motor Magazine Index

Airbag Service International, May.73
Airsept, Inc., Nov.81
Airtex Products, Mar.88
Aspire, Inc., Jan.48
Associated Equipment, May.73
AutoCareerNet, Jul.75
Automotive Leadership Institution (ALI), Dec.61
Automotive Management Resources, Jul.75
AutoTechs USA, Jul.75
Aventdirect, Sep.99
Balkamp/LUBEGARD, Nov.78
Cardone Industries, Feb.90
CARQUEST Auto Parts, Jan.48
Champion Engineering, May.76, Jul.79
Chek-Chart, Sep.99
CSK Auto, Sep.96
DieselNet, Mar.88
Enerpac Automotive Products, Nov.80
Enterprise Alliance, Jan.34
Flaming River Industries, Jun.71
General Motors restoration parts, Nov.78
Hendrick Motorsports, Mar.88
Honda gasoline-electric hybrid, Aug.63
Hyundai, May.2
International Automotive Technician's Network (iATN), Aug.16
International Mobile Air Conditioning Association (IMACA), Oct.40
John Bean Company, Oct.40
Micro Processor Systems, Inc. (MPSI), Nov.78
Miller Electric Manufacturing, May.73
MOTOR Magazine Source Guide, Oct.4
MOTOR Publishing, Oct.B64
Motorist Assurance Program (MAP), Jul.62
National Institute for Automotive Service Excellence (ASE), Aug.63
New England Business Service (NEBS), Apr.66
Osprey Systems, Inc., Mar.88
Purolator, Nov.78
Raybestos Brakes, Apr.66
Safety, Automotive Lift Institute (ALI), May.72-73
Spectrum Composites, May.76
Standard Motor Products, Oct.B38
Sunnen Products, Jun.71, Oct.40
System Guard, Oct.B38
The Smoke Machine, Nov.81
Tool Source, Jun.71
Toolbox Electronics, Jun.75
Tracer Products, Sep.96
Transmittion Rebuilders Network International, Jun.71
TruckingCareerNet, Jul.75
Volvo, Oct.40
Walton Company, Jan.52
Wells Manufacturing, May.72
Wise Industries, Aug.63
Yokogawa Corporation of America, May.76, Sep.99
Worldwide Diagnostic System (WDS), Apr.54-55
Wrangler (Jeep), PCM precaution (1997-98), Sep.93
Wynn, induction system cleaning kit, Sep.99

X

X5 (BMW), new all-wheel drive Sports Activity Vehicle previewed, Jan.33-34
XJ6 (Jaguar)
  4.0-liter, harsh upshifts with light acceleration (1992-93), Mar.86
  new-style cooling system clamps (1994 and newer), Sep.89
XJ12 (Jaguar), new-style cooling system clamps (1994 and newer), Sep.89
XJS (Jaguar)
  4.0-liter, harsh upshifts with light acceleration (1992), Mar.86
  new-style cooling system clamps (1994 and newer), Sep.89

Y

Y2K
  Editor's Report, predictions for new millennium, Dec.4
  Is Your Y2K OK?, Jun.41-43
Y2K bug information, Aug.57
Yellow Pages Publishers Association, avoiding Internet service scams, Sep.80-81
Yokogawa Corporation of America
  CA11 Voltage/Current Calibrator, May.76, Jul.78
  GA500 Refrigerant Gas Analyzer, Apr.73, Aug.65
  HP10A refrigerant leak detector, Mar.89, Apr.28, Jun.75, Sep.99, Oct.B39
  lifetime guarantee on diagnostic tools, Jan.52, Feb.92
  Model 530 01 noncontact thermometers, Mar.87
  Model 530 03 noncontact thermometers, Mar.87
  Model 530 04 noncontact thermometers, Mar.87
  website address, May.76, Sep.99
Yukon (Chevrolet), knocking out upper control arm slugs (1989-98), Jun.24

Z

Z8 (BMW), previewed, Sep.80
Zeus, in-solenoid anti-theft device, Dec.56
Zurich U.S., Dealer and Repair Pollution policy, Dec.61